IS100

Web-based Access & Security.

USER MANUAL

REV 1.0

NESS CORPORATION

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Overview

The IS100 User Manual describes the operation of the IS100 software. Use this manual for reference and daily operation of IS100. If installing the system for the first time, use this manual in conjunction with the IS100 Installation Guide.

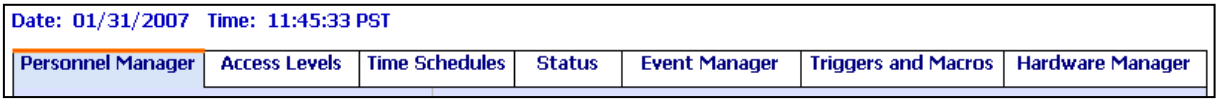
IS100 is a true web-based application that solely resides on the Ness 'V' Series controllers. A dedicated PC is not required. Simply view IS100 via an Internet Explorer browser and you are ready to go for administration and viewing of real-time events and status of your system.

IS100 consists of the following modules:

- **Personnel Manager**
- **Access Levels**
- **Time Schedules**
- **Status**
- **Event Manager**
- **Triggers and Macros**
- **Hardware Manager**

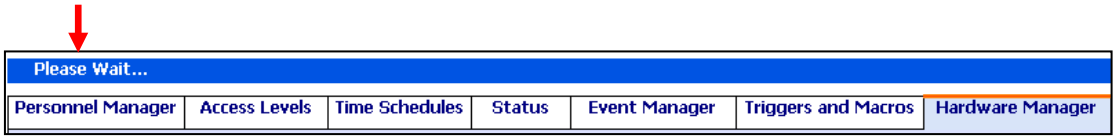
IS100 Introduction

With the seven major modules arranged in tabs, it is easy to navigate. Just click on the tab to go the appropriate module. The current or active tab will be highlighted blue.

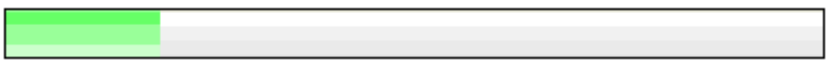


IS100 has common features present in various modules. These common features are outlined below:

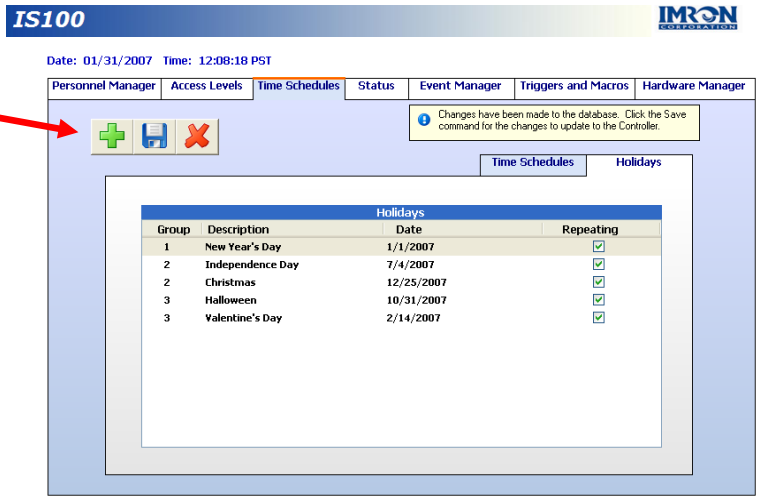
- The Date and Time are displayed right above the tabs and becomes an information bar when performing certain functions.



- A progress bar may appear when making updates or changes.



- Most modules have a simple toolbar that performs common functions, such as save, add or delete.



- When making changes, a save reminder appears on the top right side of the module.

The save reminder remains until the save button has been clicked.

- In various modules, the cursor changes to indicating that additional commands are available. Right mouse-click to call up these additional commands.

Each module consists of specific properties and functions. The IS100 User Manual goes through each module and covers all the corresponding features beginning with the Personnel Manager and ending with the Hardware Manager. Each section includes screen shots with numbers and letters that correspond to definitions and functions defined below the figures.

Connecting to the IS100

! If you are not familiar with the network configuration of your facility, please contact the Network Administrator or IT Manager to perform the steps outlined below.

- Once all hardware is mounted and wired, initial system set-up and configuration should be performed with a client computer or laptop that is on the same network as the controller via a network switch **OR** while connected directly to the controller with a computer/laptop and an Ethernet cable.
- All Ness V1000 & V2000 System controllers are set to DHCP by default out of the factory.

  In some cases the IP address may be set for you, and a sticker on the controller will display the IP address of the unit.

  Since you the unit is set to DHCP by default, you may need a tool such as *Advance IP Scanner* from *www.radmin.com* to search for controllers on your network, or you may want to use a factory set static IP in the unit.

  Direct Connect with a factory set static IP

  You can use the default static IP address in each V1000 & V2000 of **169.254.242.121**.

  Step 1:
  You need to plug in directly into the V1000 / V2000 with your Ethernet cable.

  Step 2:
  You need to note down your current IP and network settings on your computer.

  Step 3:
  Change your computers IP address to **169.254.242.100**, with the subnet mask to **255.255.255.0**.

Connect With a DHCP IP

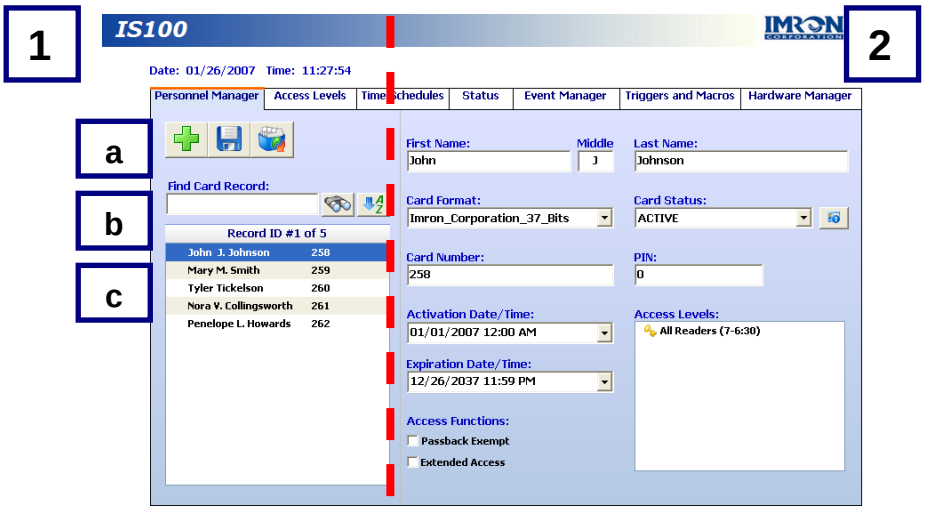
If you are connecting to the controller with the DHCP address you need to make sure your computer is on the same network range.

For example:

If the controllers IP address is: **192.168.0.40** then the computer that will be communicating with the controller should have the following IP address:'192.168.0.xxx ' (xxx can be any number between 2 thru 254, but not the same number that the controller has been pre-programmed with).

Personnel Manager

The **Personnel Manager** stores pertinent data necessary to manage site access and security. Add, delete or edit cardholder records. Add up to 8 access levels per cardholder record. Perform group adds or group deletes. Sort cardholder records by several different parameters. Apply advanced access functions such as extended access and anti-passback.



Personnel Manager consists of two main parts: Part 1 and Part 2.

Part 1- Cardholder Display

Part 1 consists of the Personnel Manager Toolbar, Find Card Record field, and the Cardholder Population List.

a. The Personnel Manager Toolbar consists of three buttons: Add New Record, Save, Group Edit. The functions of these buttons are defined below.

Add a New Record.

Save any modifications, changes or edits made in the Personnel Manager.

Perform Group Edit functions, either Group Add or Group Delete.

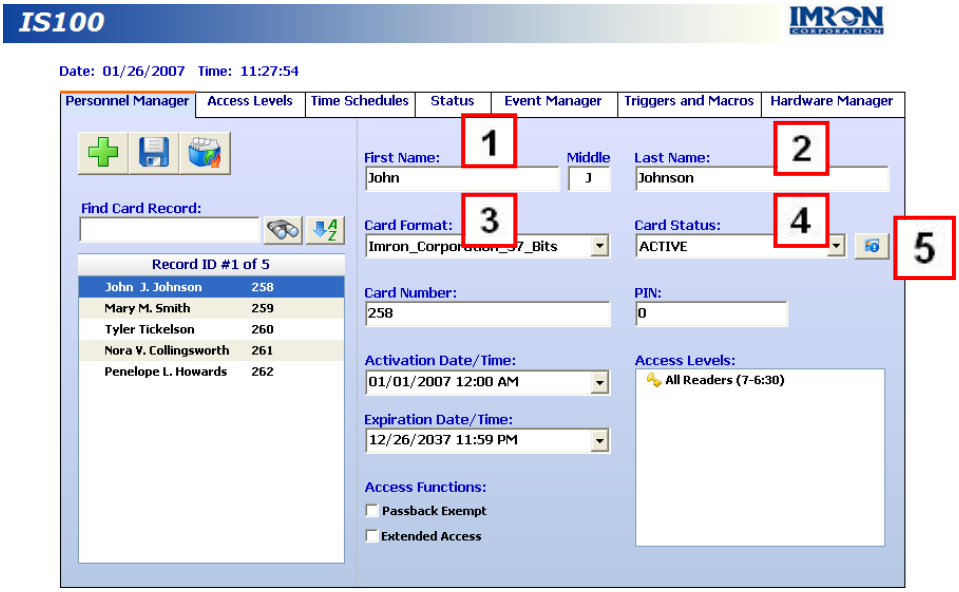
b. In the Find Card Record, type in either the name (first or last) or the card number and click . Sort cardholder list by various parameters. Click to sort.

c. The Cardholder Population List displays the cardholders with the corresponding card numbers.

Part 2 – Properties and Functions

Part 2 consists of the various data fields displaying information for a particular cardholder. When making changes in these data fields, the field name is italicized and remains so until changes are saved.

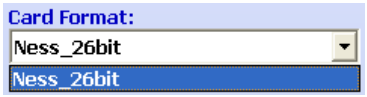
THIS SECTION COVERS THE PROPERTIES AND FUNCTIONS OF THE PERSONNEL MANAGER.



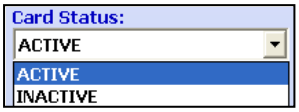
1. First Name. Enter the First Name of the cardholder. In the box following the First Name field, enter the initial of the middle name.

2. Last Name. Enter the Last Name of the cardholder.

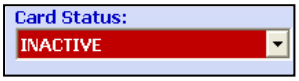
3. Card Format. Click on the drop-down menu. Select the appropriate Card Format, for example 37-bit or 26-bit.



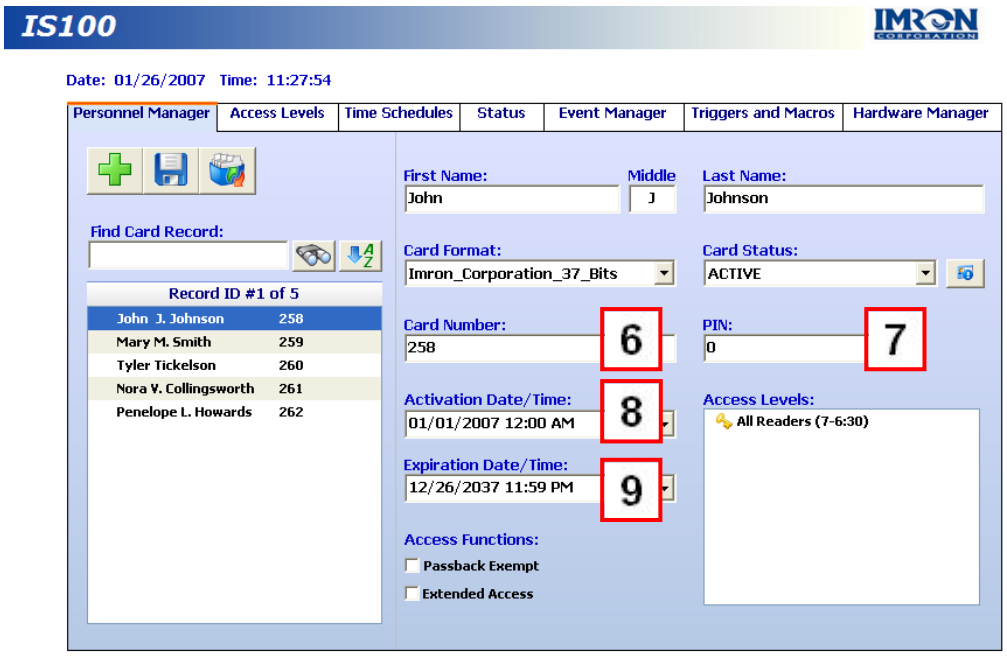
4. Card Status. Click on the drop-down menu. Select the appropriate Card Status.



If card status is INACTIVE, that record will be tagged.



5. Click to obtain the last card information for this cardholder.

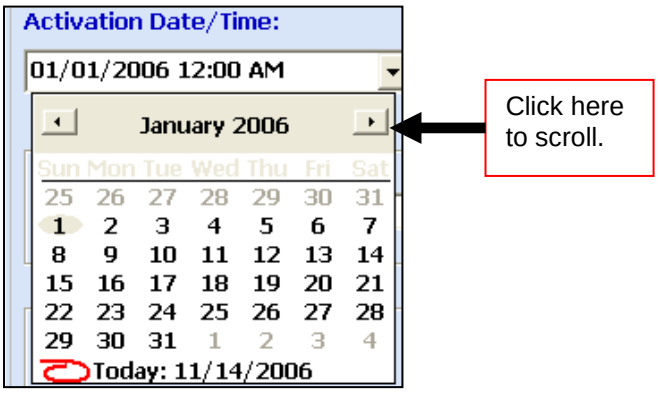


6. Card Number. Enter the Card Number.

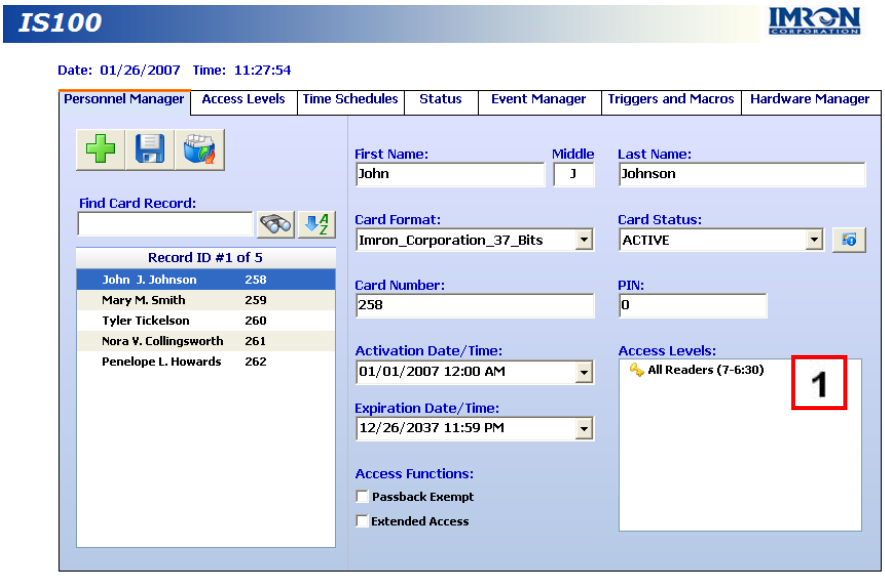
7. Pin. If needed, enter the Pin Number.

8. Enter the cardholder Activation Date/Time. Click on the parameter: month, day, year or time and type in the appropriate information when highlighted. See below.

Alternatively, click on the drop-down menu and select the appropriate date. To scroll through the months, click on the left or right buttons shown below.

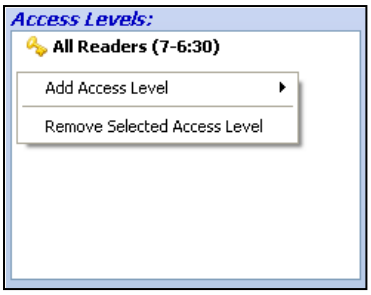


9. Enter the cardholder Expiration Date/Time. Repeat as described in step # 8.

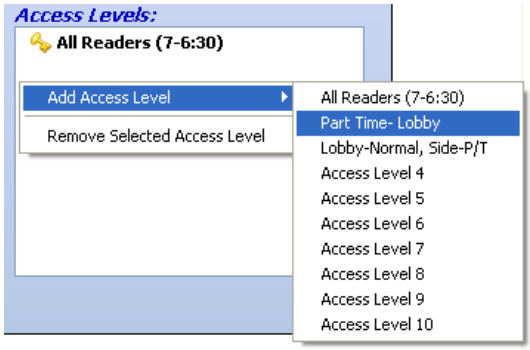


Access Levels

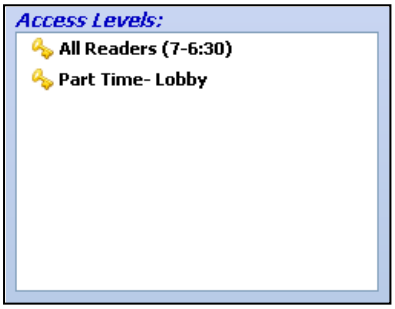
1. To assign one or more access levels to a card record, hover over the **Access Levels** window.
2. The cursor changes to , indicating that additional commands are available. Right mouse-click to call up a popup menu.



3. Highlight **'Add Access Level'** from the popup menu to display all 10 access levels. Select the preferred access level, in this example, Part Time-Lobby.

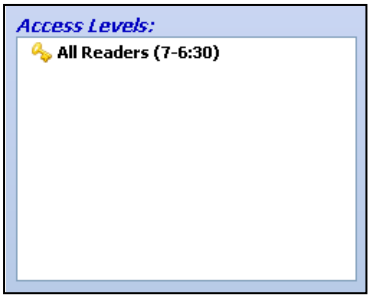


4. **Part Time-Lobby** has been added.



5. To remove an access level, simply select the appropriate access level and right mouse-click. Go to 'Remove Selected Access Level'.

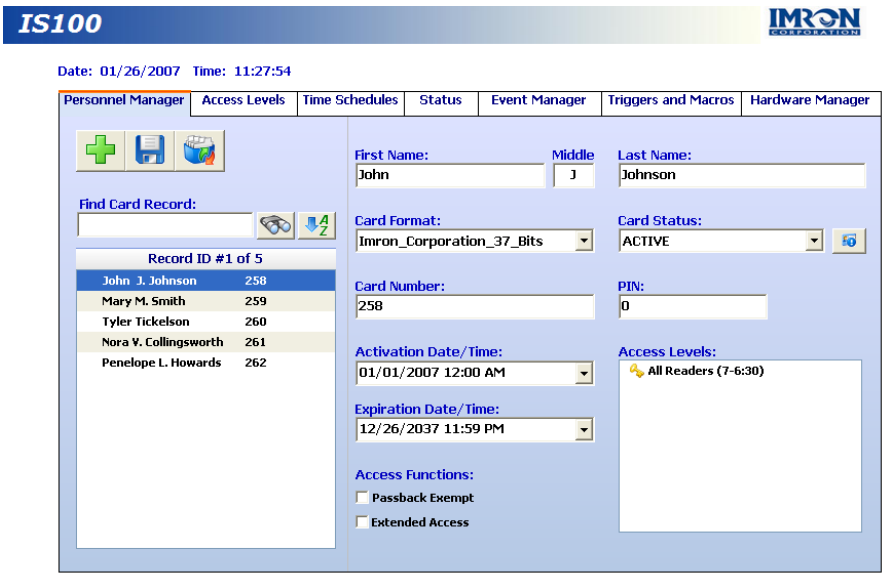
6. Part Time-Lobby has been removed.



7. Add up to 8 access levels per cardholder. When the maximum number of access levels is reached **'A maximum of 8 Access Levels are allowed per record'** is displayed on the information bar.

Up to eight (8) access levels can be assigned to a cardholder.

For more information on creating access levels, please go to the Access Level section.



Access Functions/Find Record

1. Under Access Functions, the following features can be selected:

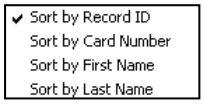
The cardholder will be exempt from anti-passback conditions.

The cardholder will be granted extended access grant time. This is commonly used for ADA settings.

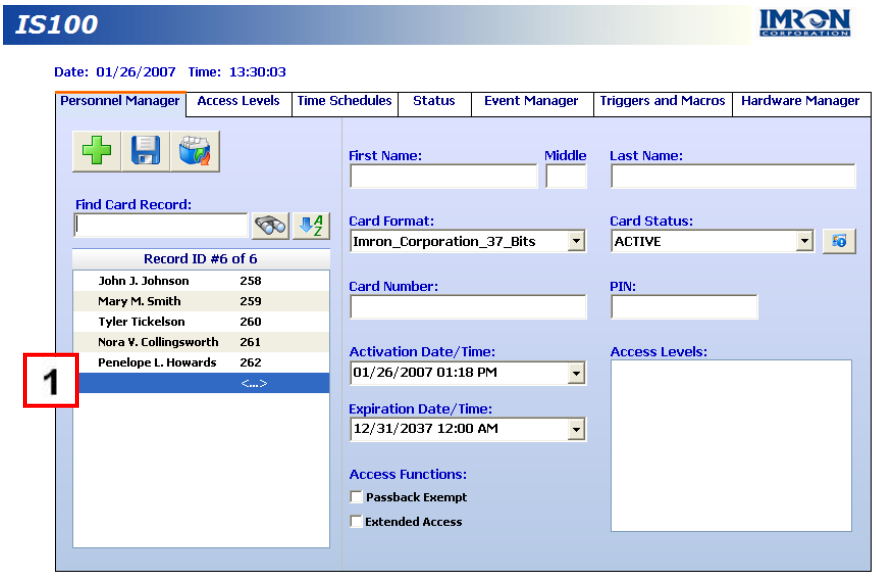
For more information on defining anti-passback conditions and the extended access grant time please go to the Hardware Manager section.

2. To find a specific record or card number, type in the name or the number. Press <Enter> or click on the binoculars. Continue to click on the binoculars to advance to the next cardholder record with the same name.

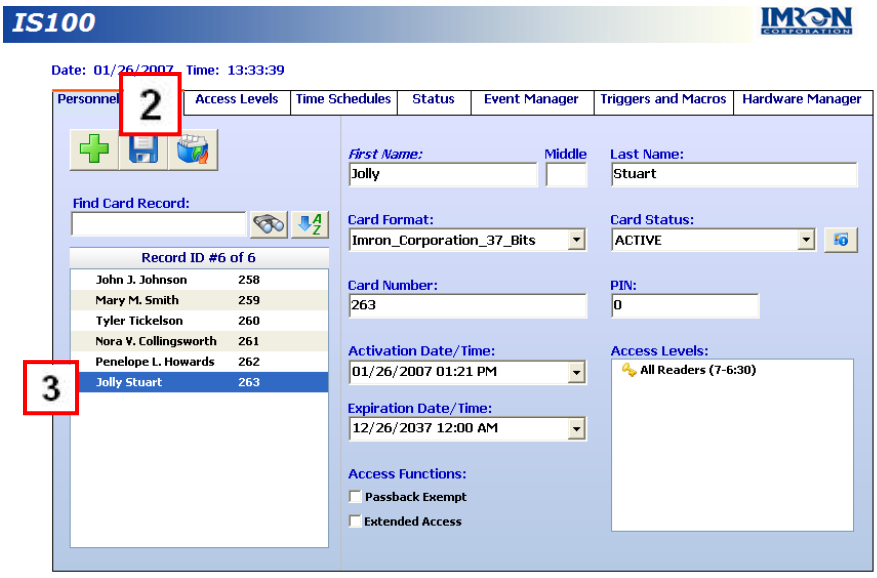
3. To sort records, click . Next, select how the records should be sorted.



Adding a Record



1. To add a new record, click . A new slot appears.

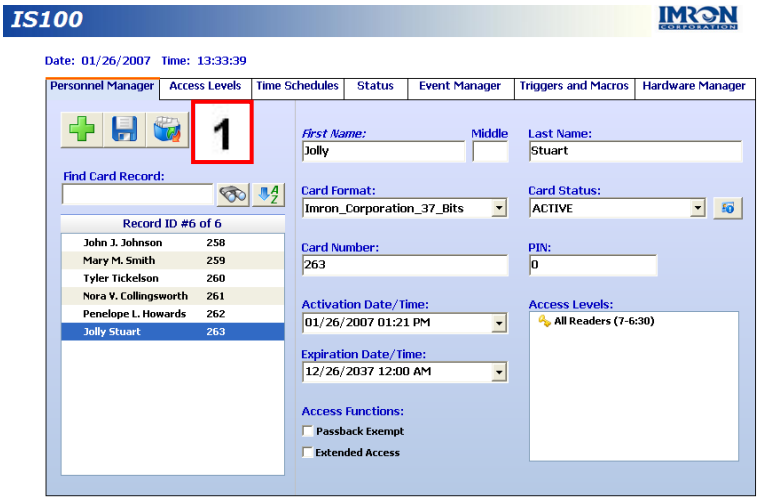


2. For the new record, enter the appropriate cardholder information and click .

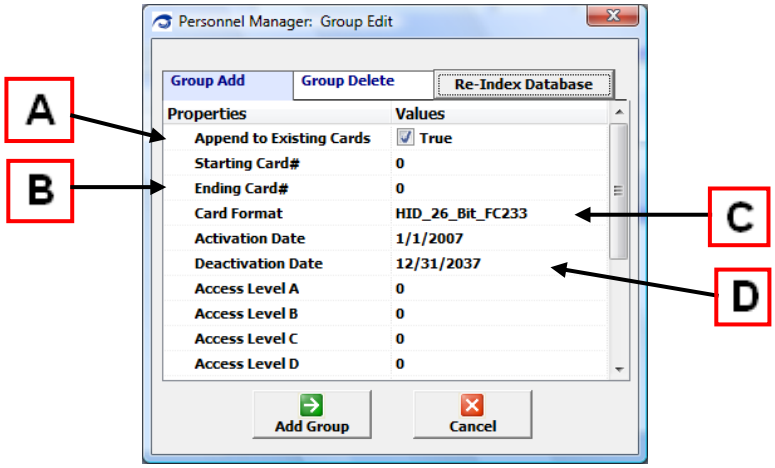
3. Once saved, the cardholder is displayed in the cardholder list.

Group Add

In addition to adding a single card, a group add can also be performed. This is especially useful if the group of cards to be added is in a sequence.



1. To Group Add, click .



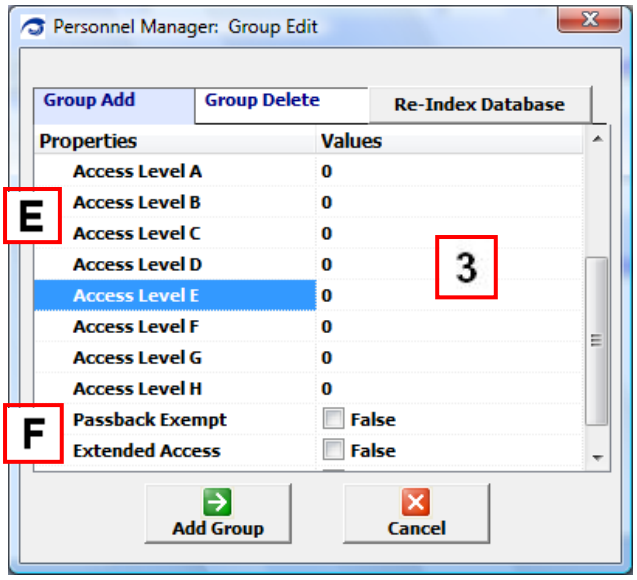
2. A 'Personnel Manager: Group Edit' window appears. Define the specified parameters:

A. Checking **TRUE**, will **APPEND** the specified cards to the existing cardholder records. Leaving this **FALSE** will create new records with the specified card number range and **DELETE** existing cardholder records.

B. Enter the Starting Card# sequence and the Ending Card# sequence.

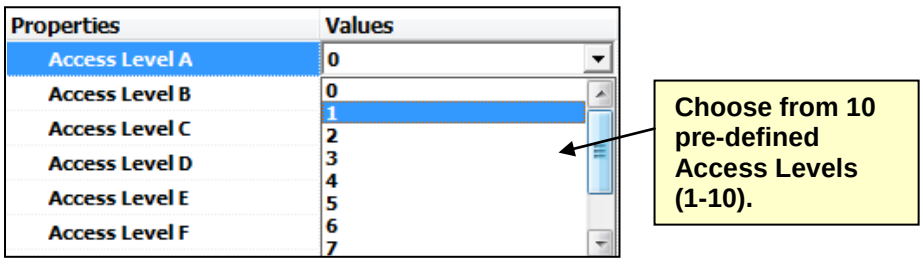
C. The card format will default to the correct one.

D. Enter the Activation Date and the Deactivation Date.



3. Scroll down to display more parameters.

E. Define up to 8 Access Levels for the specified card range:

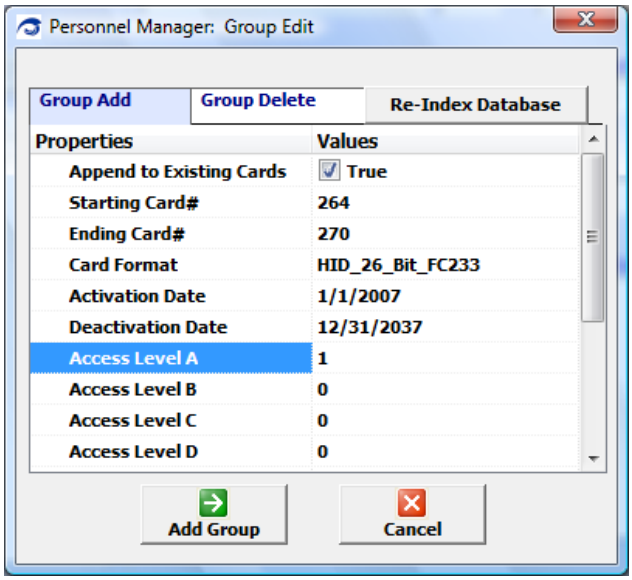


F. To apply either Passback Exempt or Extended Access or both parameters to the specified card range, mark as True. To not apply any or all parameters leave blank, False.

4. In Example 1 below, the following Group Add was performed:

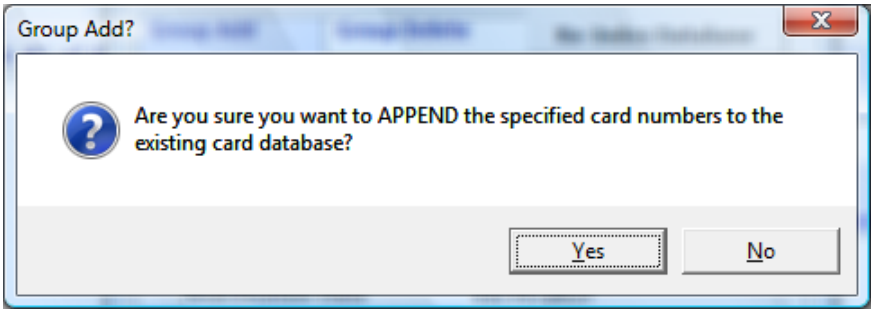
Example 1- Append to Existing Card Records

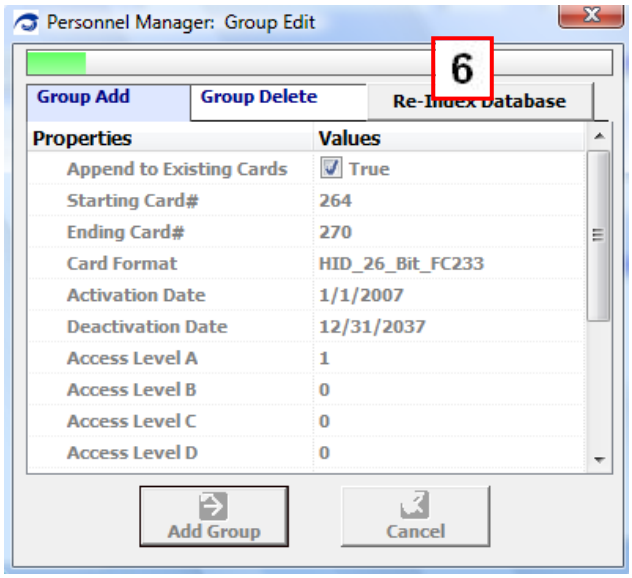
- Append to the Existing Cards: **True**
- Card Range: **264-270**
- Card Format: **26 Bit**
- Activation Date **1/1/2007**, Deactivation Date **12/31/2037**
- Access Level A: **1**



5. Once the parameters are specified, click

. A 'Group Add?' message dialog will appear. The message dialog reconfirms that the specified card numbers will be added to the existing card database. Click Yes.

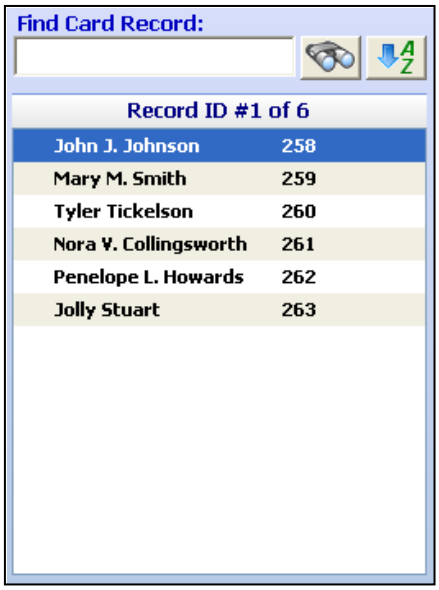




6. A green progress bar will appear. When complete the newly specified card numbers will be added to the existing cardholder records.

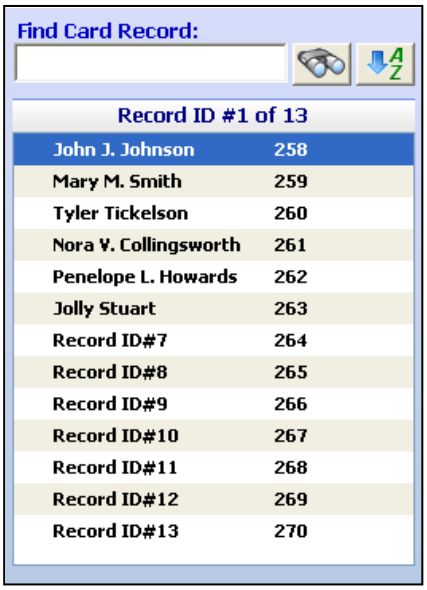
7. The new cardholder records are shown below.

Old Cardholder Records



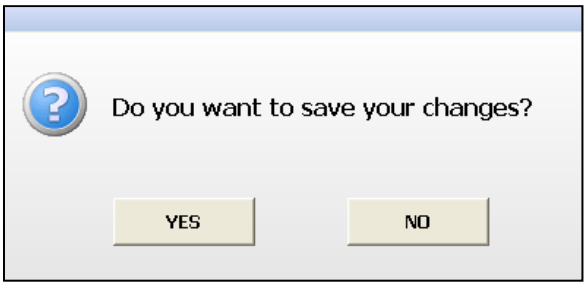
Append to Existing Card Records

New Cardholder Records



8. To add names to the new records, simply click on the record and enter the name in the appropriate fields. Click .

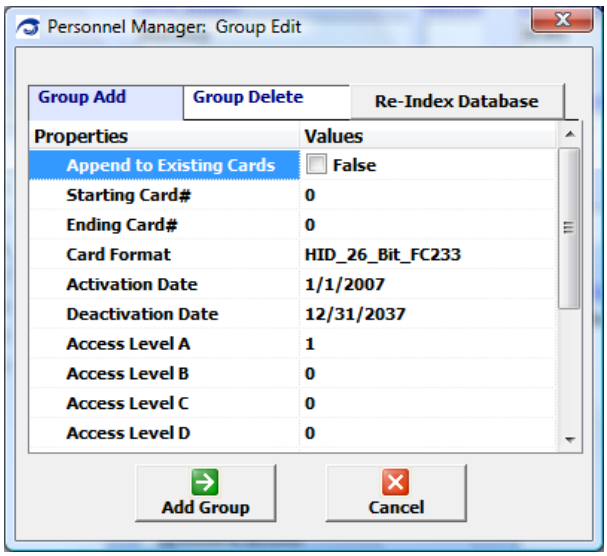
9. If after adding a cardholder name, the next record is selected without saving the previous cardholder name, the following message dialog will appear. Click Yes.



10. In Example 2 below, the following Group Add was performed:

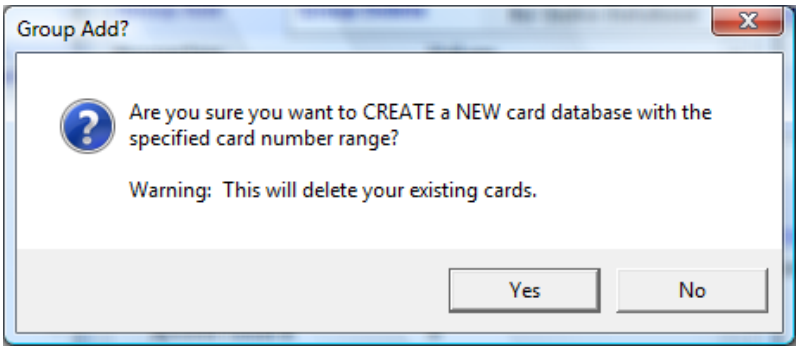
Example 2 - Replace Existing Card Records

- Append to the Existing Cards: **False**
- Card Range: **264-270**
- Card Format: **26 Bit**
- Activation Date **1/1/2007**, Deactivation Date **12/31/2037**
- Access Level A: **1**



11. Once the parameters are specified, click

. A 'Group Add?' message dialog will appear. The message dialog reconfirms that **NEW** cardholder records will be created, **DELETING** the existing cardholder records. Click Yes, if this is true.

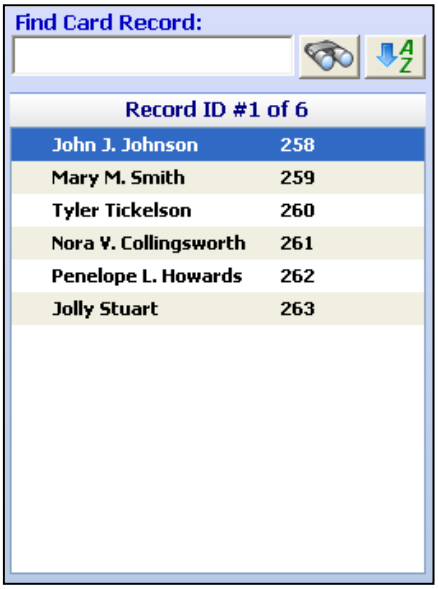

Group Add?
Are you sure you want to CREATE a NEW card database with the specified card number range?
Warning: This will delete your existing cards.
Yes
No

! EXERCISE CAUTION WHEN PERFORMING THIS FUNCTION. ALL EXISTING CARDHOLDERS WILL BE DELETED.

12. A green progress bar will appear (see # 6 above). When complete the newly specified card numbers will replace existing cardholders.

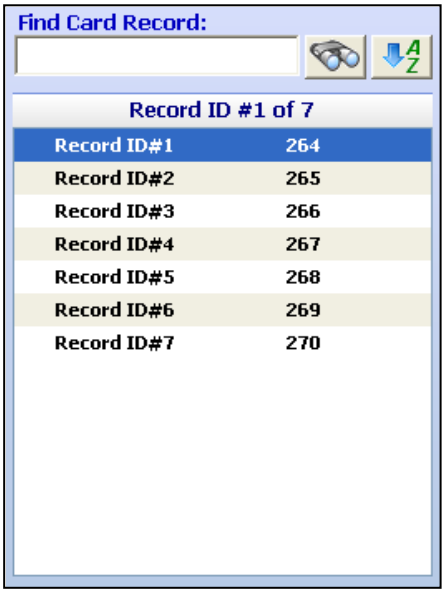
13. The new cardholder records are shown below.

Old Cardholder Records

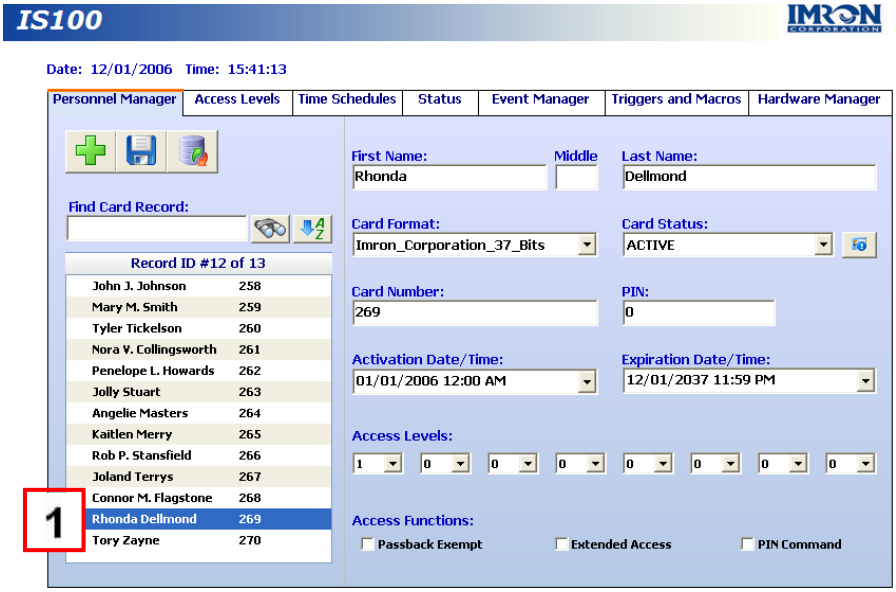


Replace Existing Card Records

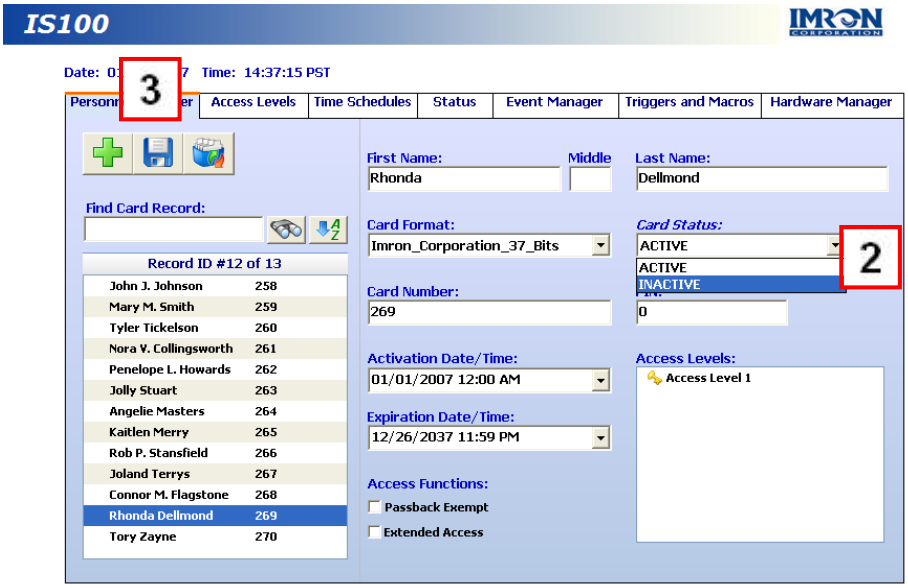
New Cardholder Records



Inactivating a Record



1. To inactivate a record, first select the cardholder.

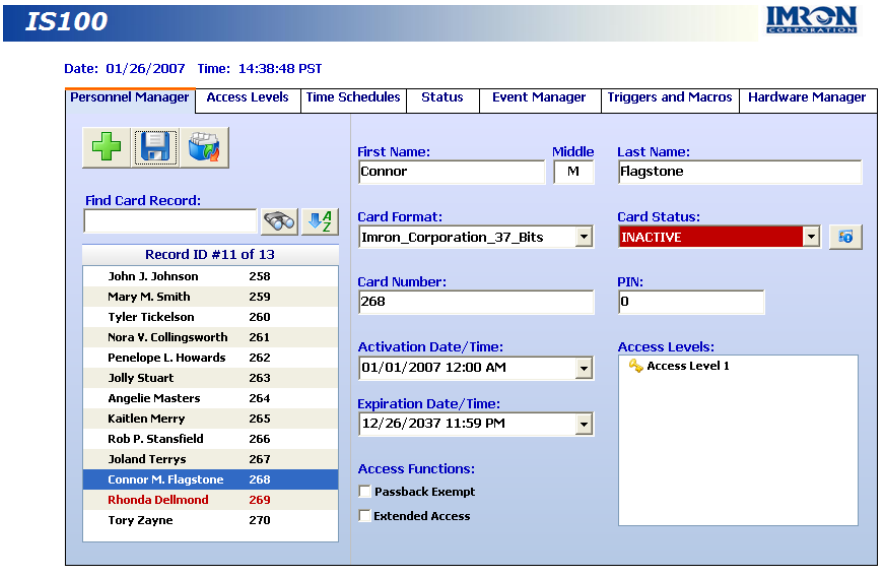


2. Change the Card Status to ‘INACTIVE’.

3. Click .

4. Once **SAVED** the cardholder record will be tagged in two locations: the Card Status will be displayed as red INACTIVE and the cardholder record will appear red in the cardholder list.

Another cardholder record (Record ID # 11 of 13) has also been tagged inactive.



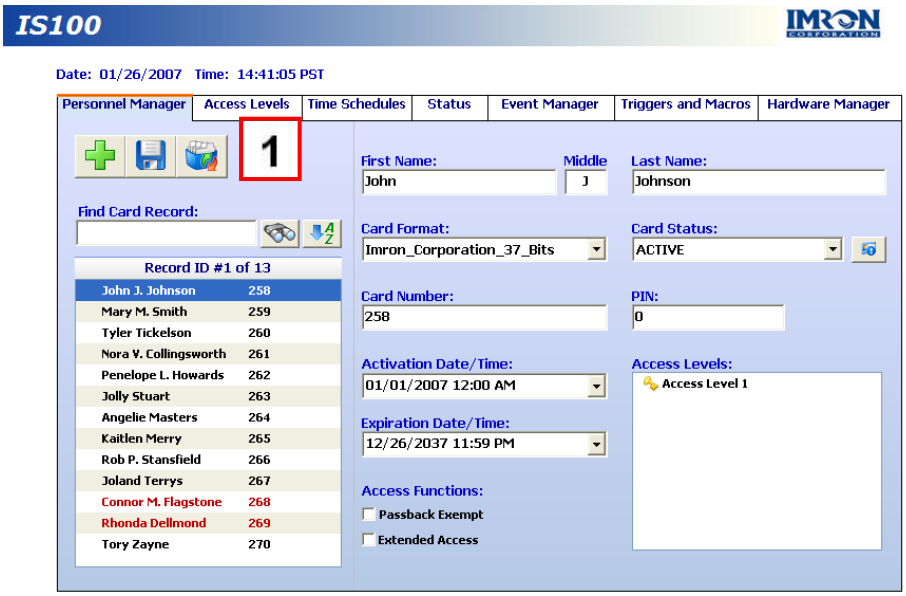
! Card Records are indexed by the record ID#, which is tied to all history and events, including the record name. It is RECOMMENDED that when a card record or card records are no longer utilized they should be made inactive and left in the database. These records are tagged inactive and are no longer functional.

If a group of cards require deletion, FIRST run a report for all events in the Event Manager (see the Event Manager section for more information). Save and print the report to obtain a hard copy.

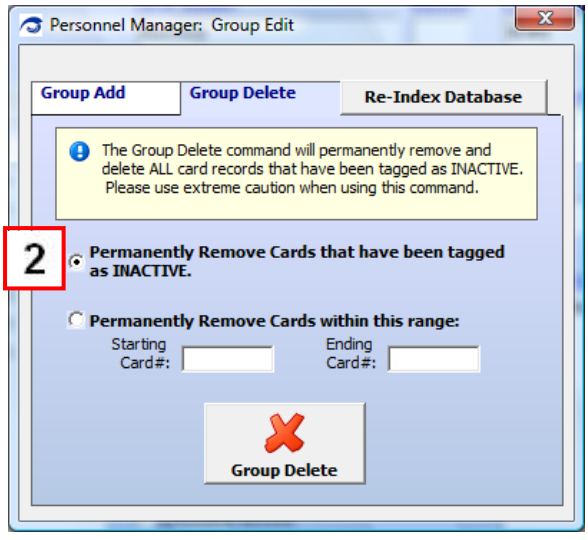
Once reports have been generated and saved/printed, delete the appropriate cards as described in the sections that follow.

Group Delete – Inactive Cards

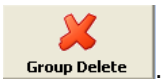
Group deletes (or single card deletes) can be performed by either deleting card(s) that have been tagged inactive or entering in the card number(s). This section outlines how Inactive Cards are deleted.



1. To Group Delete, click .


Personnel Manager: Group Edit
Group Add
Group Delete
Re-Index Database
The Group Delete command will permanently remove and delete ALL card records that have been tagged as INACTIVE. Please use extreme caution when using this command.
2
Permanently Remove Cards that have been tagged as INACTIVE.
Permanently Remove Cards within this range:
Starting Card#:
Ending Card#:
Group Delete

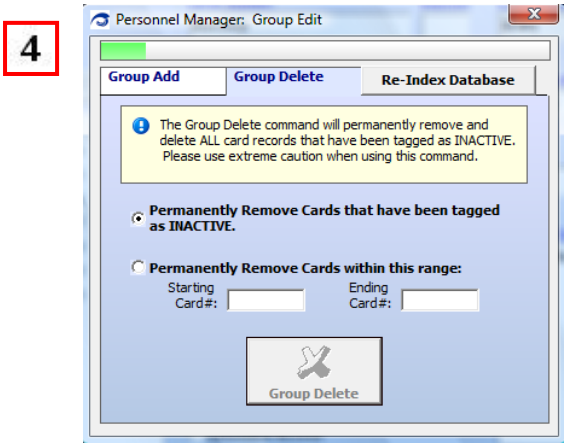
2. To delete INACTIVE cards, click on the first option.

3. Click 

. A 'Group Delete?' message dialog will appear. The message dialog reconfirms that the INACTIVE card record(s) will be deleted. Click Yes, if this is true.

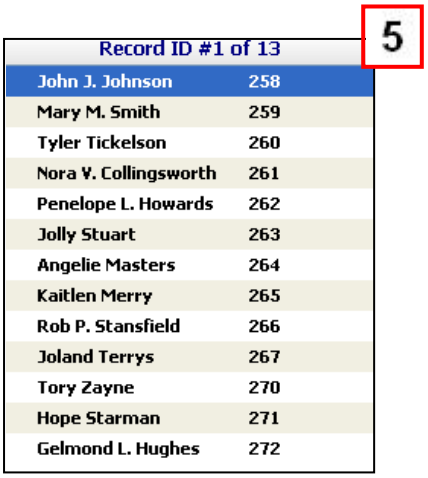
! EXERCISE CAUTION WHEN PERFORMING THIS FUNCTION.

4. A green progress bar will appear.


4
Personnel Manager: Group Edit
Group Add
Group Delete
Re-Index Database
The Group Delete command will permanently remove and delete ALL card records that have been tagged as INACTIVE. Please use extreme caution when using this command.
Permanently Remove Cards that have been tagged as INACTIVE.
Permanently Remove Cards within this range:
Starting Card#:
Ending Card#:
Group Delete

5. When complete the tagged cardholders are deleted. Since the cardholders have been sorted by record ID, the available slots appear in the same location as the deleted cardholders.

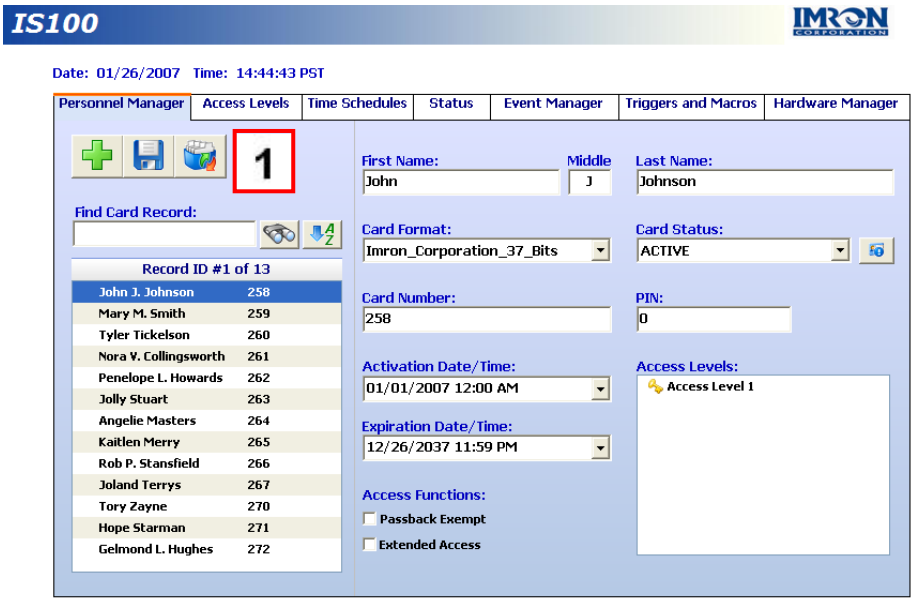
Record ID #1 of 13	
John J. Johnson	258
Mary M. Smith	259
Tyler Tickelson	260
Nora V. Collingsworth	261
Penelope L. Howards	262
Jolly Stuart	263
Angelie Masters	264
Kaitlen Merry	265
Rob P. Stansfield	266
Joland Terrys	267
Record ID#11	<...>
Record ID#12	<...>
Tory Zayne	270



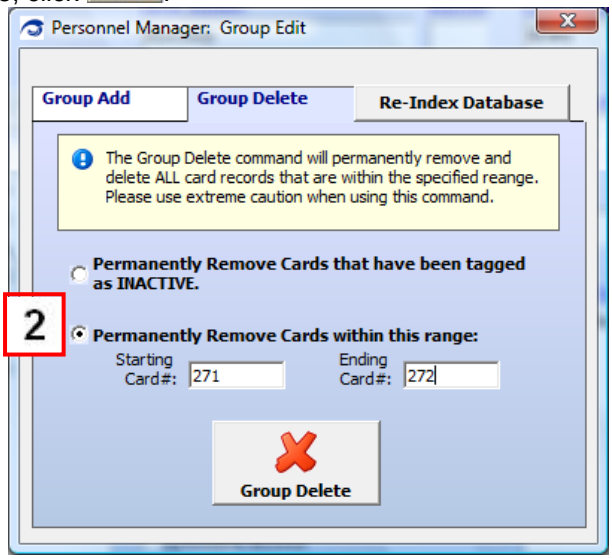
6. Two new cardholders have been added to Record ID #11 and Record ID # 12. Once added, the cardholders were sorted by Card Number.

Group Delete – Card Numbers

Group deletes (or single card deletes) can be performed by either deleting card(s) that have been tagged inactive or entering in the card number(s). This section outlines how Cardholders with a specified card range can be deleted.



1. To Group Delete, click .

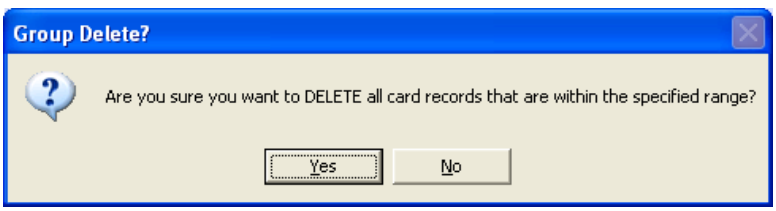

Personnel Manager: Group Edit
Group Add
Group Delete
Re-Index Database
The Group Delete command will permanently remove and delete ALL card records that are within the specified reange. Please use extreme caution when using this command.
Permanently Remove Cards that have been tagged as INACTIVE.
2
Permanently Remove Cards within this range:
Starting Card#: 271
Ending Card#: 272
Group Delete

2. To delete Cardholders with a specified card range, click on the second option and type in the card range. In this example, card range is 271-272.

To delete a SINGLE card, enter card number for the Starting Card# and the Ending Card#.

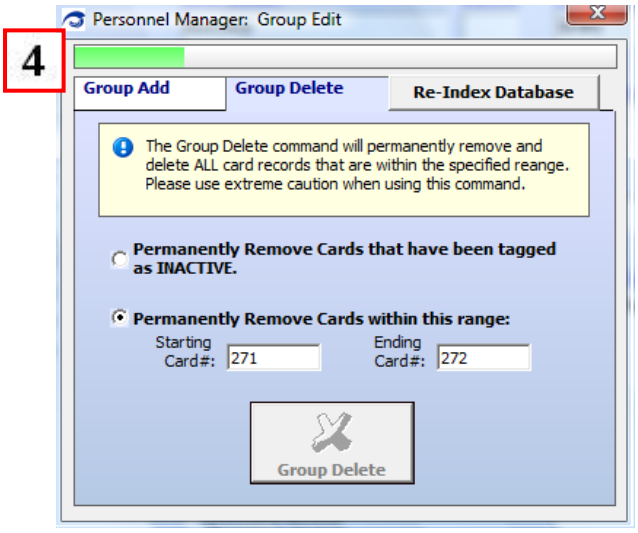
3. Click

. A 'Group Delete?' message dialog will appear. The message dialog reconfirms that the card(s) with the specified card range will be deleted. Click Yes, if this is true.

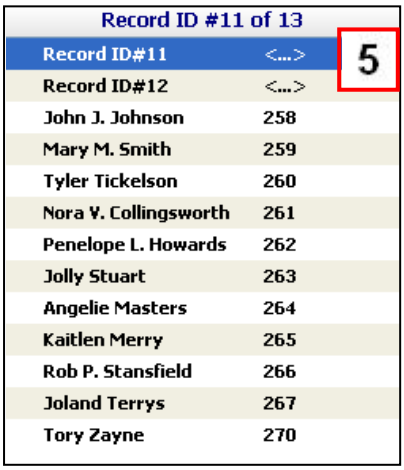


! EXERCISE CAUTION WHEN PERFORMING THIS FUNCTION.

4. A green progress bar will appear.

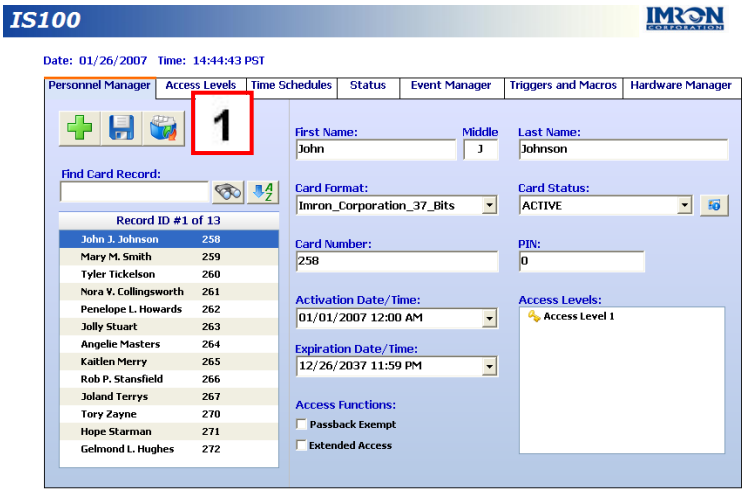

4
Personnel Manager: Group Edit
Group Add
Group Delete
Re-Index Database
The Group Delete command will permanently remove and delete ALL card records that are within the specified reange. Please use extreme caution when using this command.
Permanently Remove Cards that have been tagged as INACTIVE.
Permanently Remove Cards within this range:
Starting Card#: 271
Ending Card#: 272
Group Delete

5. When complete the cardholders with the specified card range are deleted. Since the cardholders have been sorted by Card Number, the available slots appear on the very top of the cardholder list.



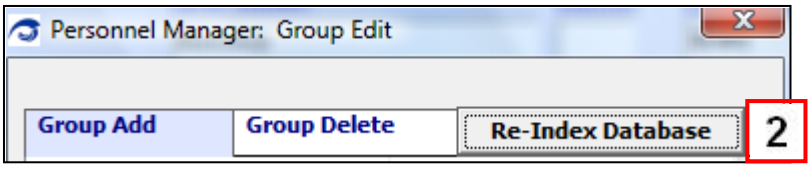
Re-Index Database

The Re-Index Database function verifies the integrity of the associated card#s and the record IDs. Perform this function when multiple add and/or delete functions are performed.

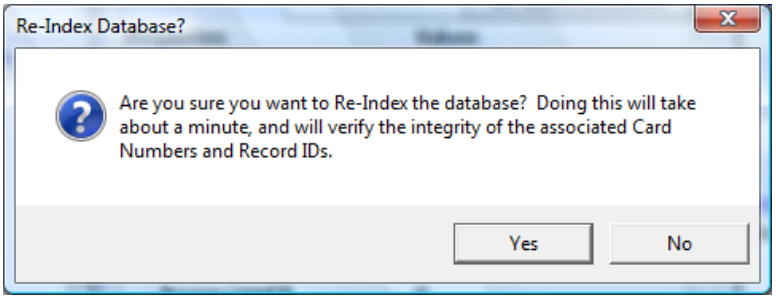


1. To Re-Index, click .

2. Click on ‘Re-Index Database’.



3. A ‘Re-Index Database?’ message dialog will appear. Click Yes, if this is true.

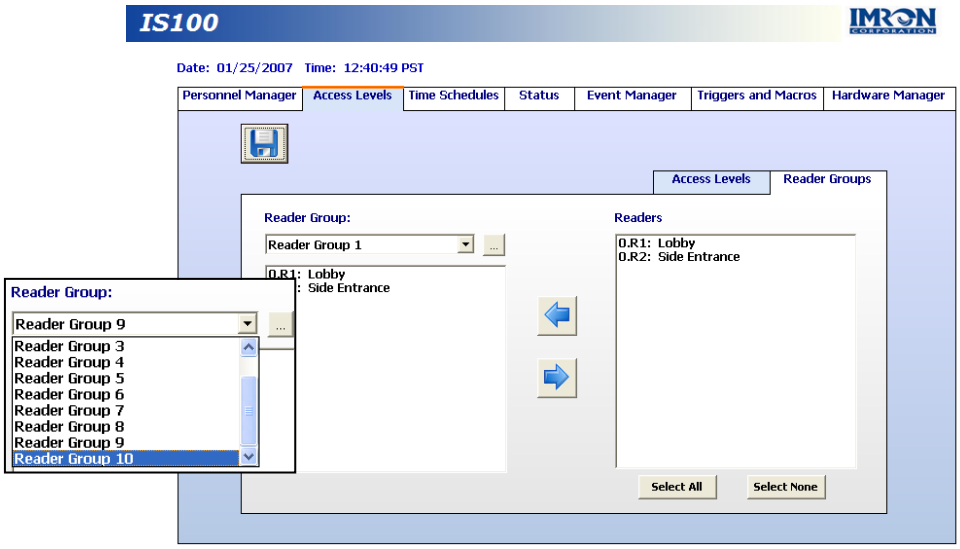

Re-Index Database?
Are you sure you want to Re-Index the database? Doing this will take about a minute, and will verify the integrity of the associated Card Numbers and Record IDs.
Yes
No

Access Levels

Access Levels consists of a reader or a group of readers with a Time Schedule association. The Access Levels module consists of two sub-tabs: **Reader Groups** and **Access Levels**. In the **Reader Groups** sub-tab, assign a single reader or multiple readers to a Reader Group. In the **Access Levels** sub-tab, the Reader Groups can be associated to a Time Schedule and then assigned to an access level.

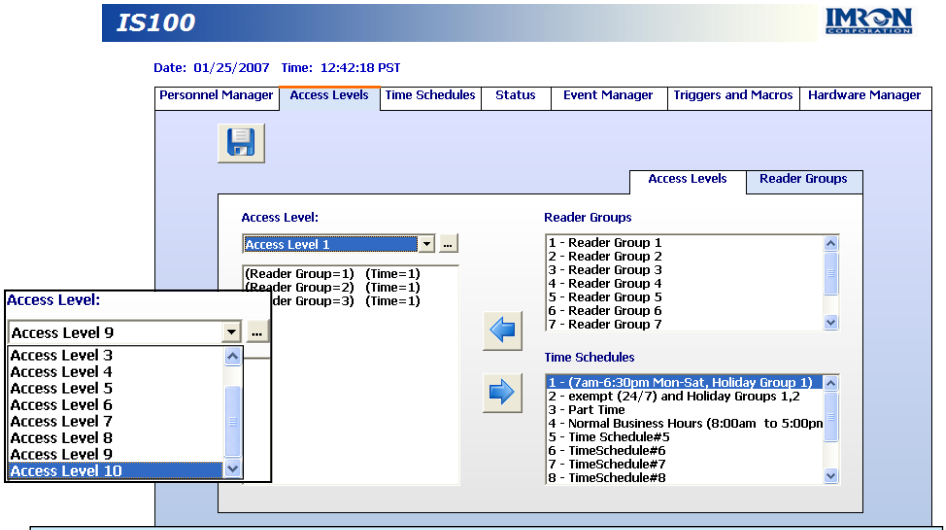
Reader Groups

Define up to 10 Reader Groups.



Access Levels

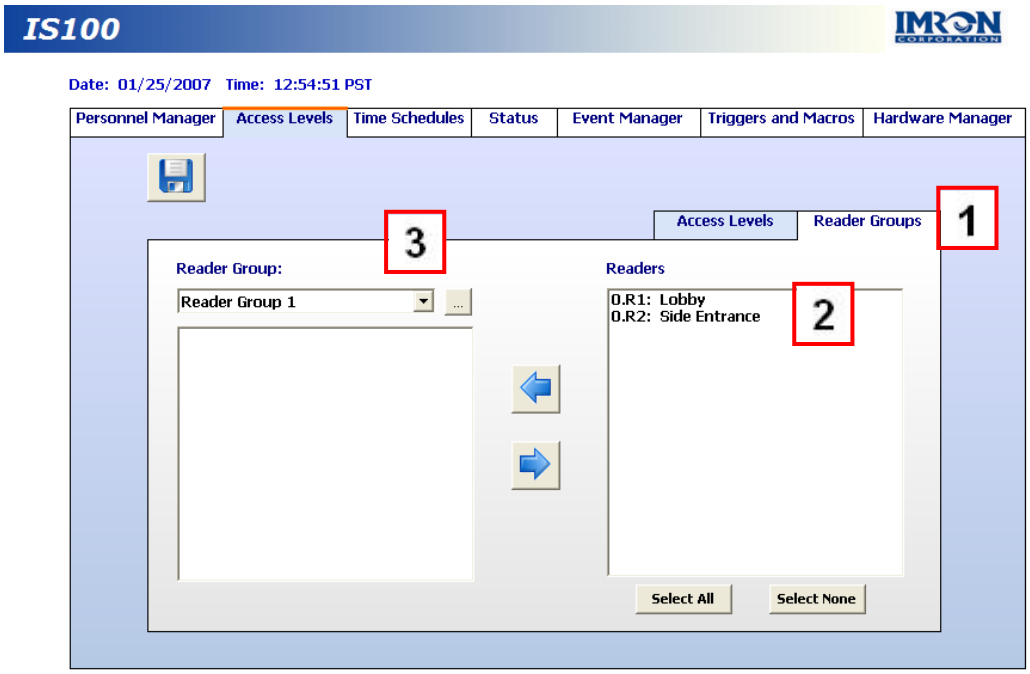
Define up to 10 Access Levels.



THIS SECTION COVERS READER GROUPS AND ACCESS LEVELS.

Defining Reader Groups

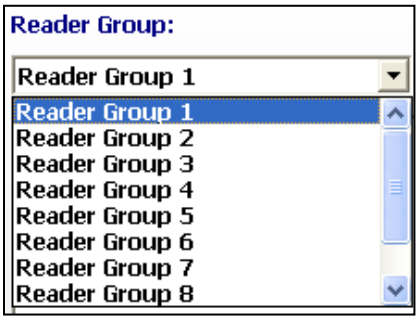
To set-up Access Levels, first define the reader group(s) by assigning a reader or a multiple readers to the selected Reader Group.

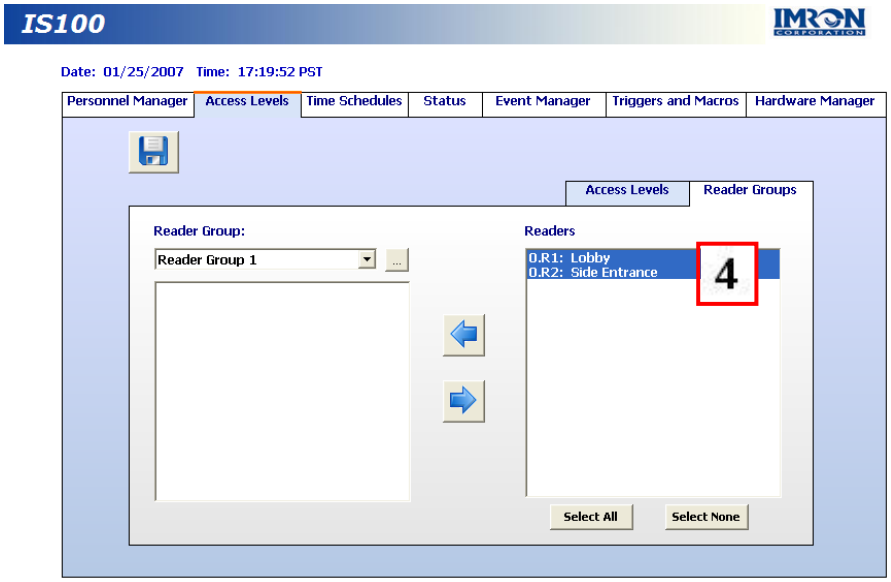


1. Click on the Reader Groups tab.

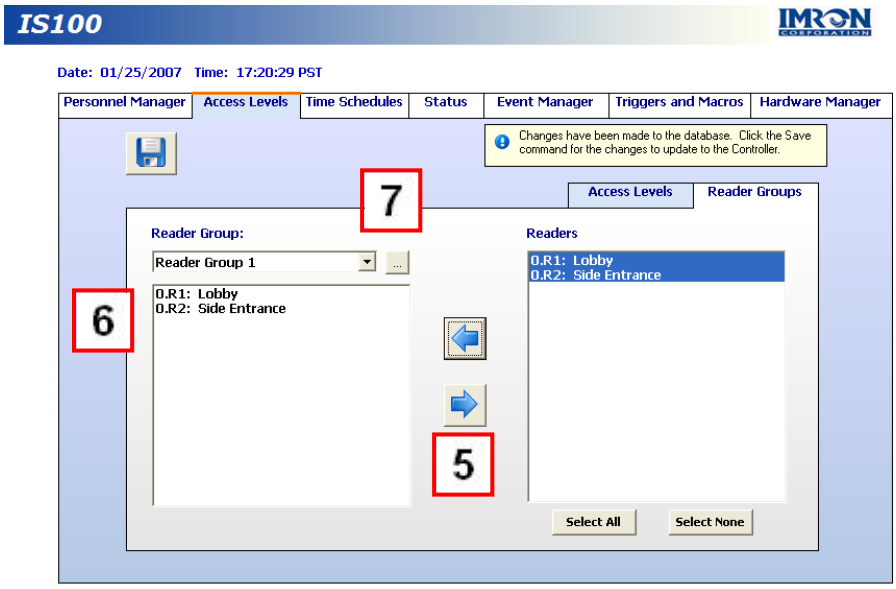
2. Readers in communication with Ness 'V' Series controllers 'V' Series controllers will auto-populate in the **Readers** window.

3. Click to select a Reader Group (1-10) from the drop-down menu.





4. Click on the readers to add to the Reader Group. To deselect, simply click on the reader again.



5. Click to add readers to the Reader Group. Click to remove readers from the Reader Group.

6. The selected readers have now been placed under Reader Group 1.

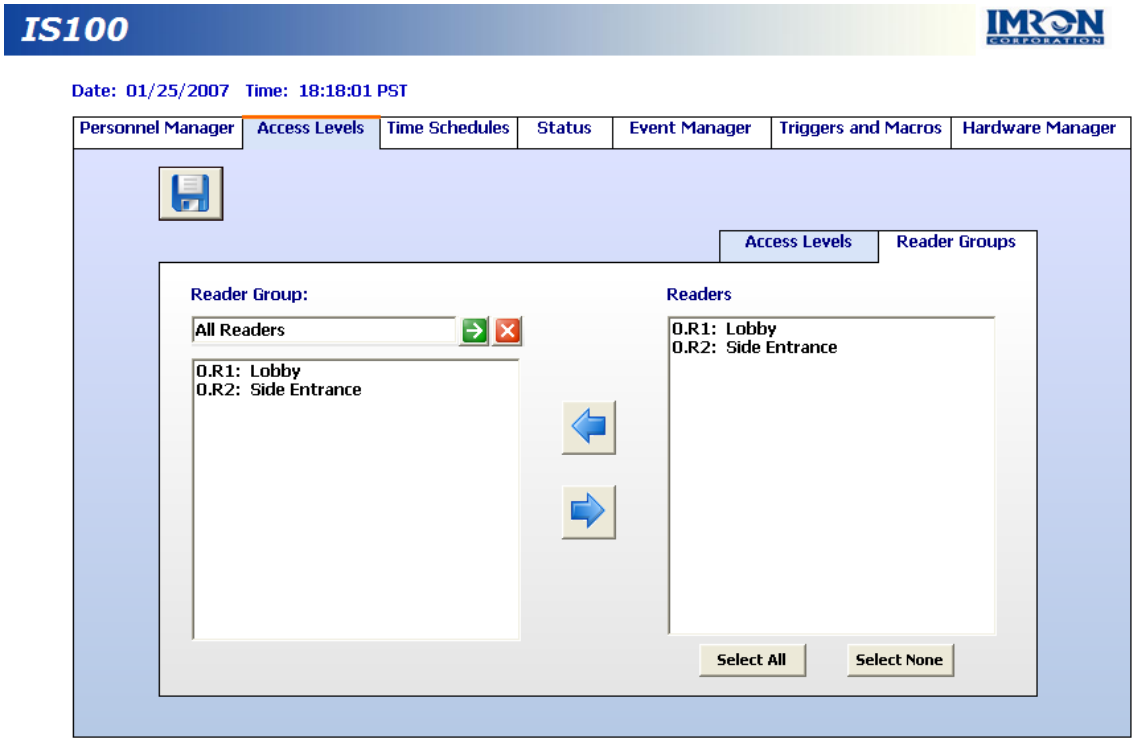
7. To rename the Reader Group, click .

8. After clicking

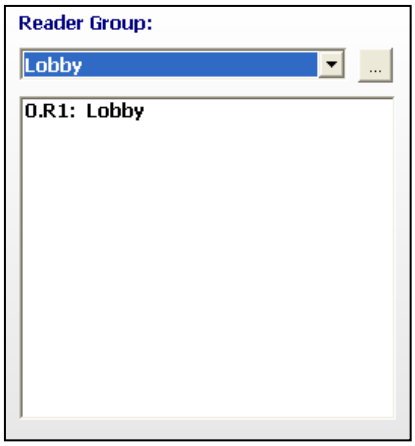
on , the buttons will

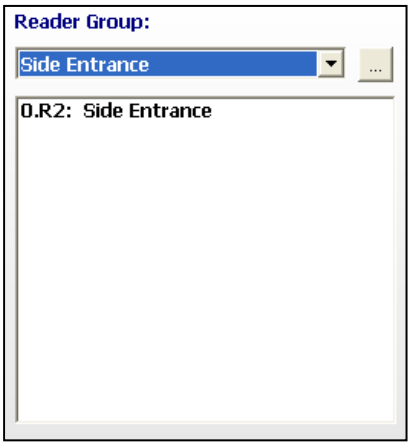
change to .

9. Type in the new name and click on to update the new Reader Group. To disregard the changes click on .



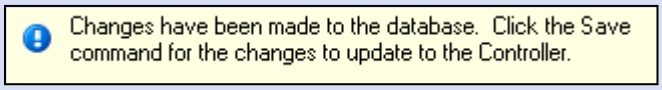
Two readers (O.R.1: Lobby and O.R.2: Side Entrance) have been assigned to the All Readers reader group.





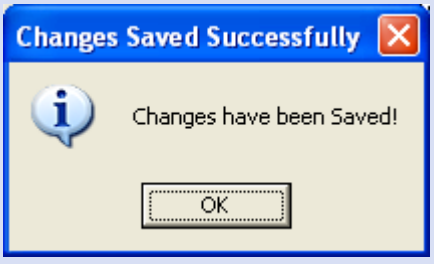
Two new reader groups are defined: Lobby and Side Entrance.

The save reminder will appear when any change is made.



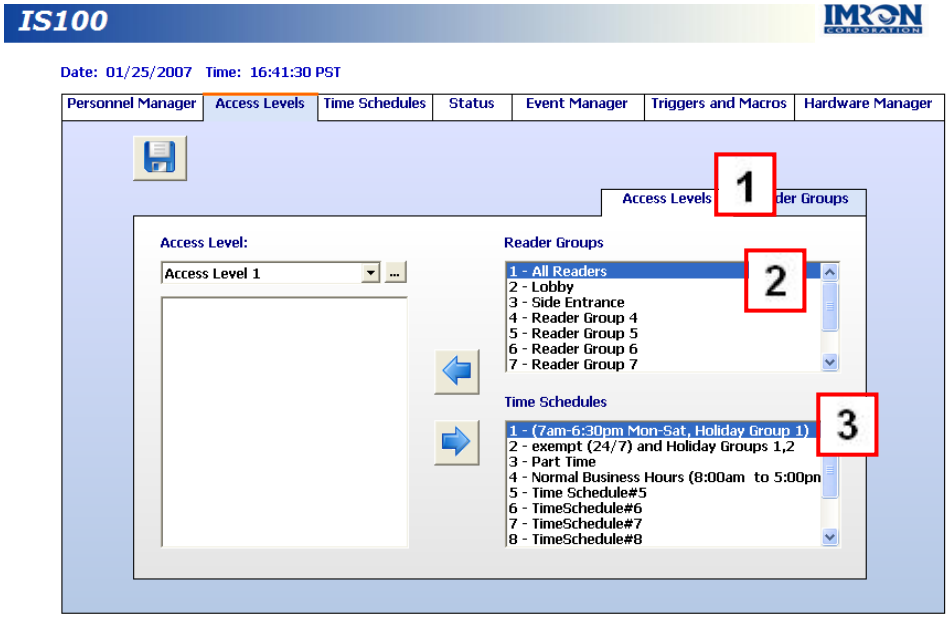
When multiple changes are needed, simply make all the changes, click **when complete.**

A 'Changes Saved Successfully' dialog box will appear. Click OK.



Defining Access Levels

To define an Access Level, assign Reader Group(s) with an associated Time Schedule to the selected Access Level.

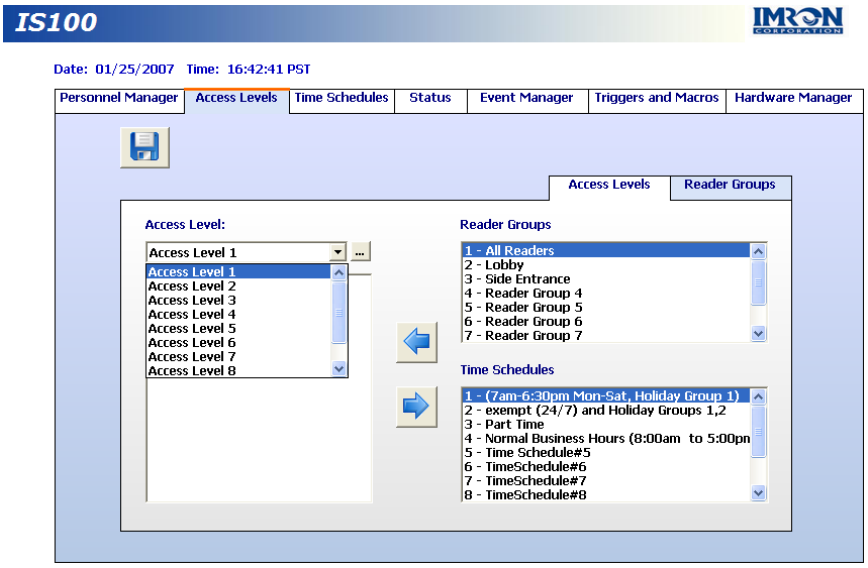


1. To create access level(s), click on the Access Levels tab.

2. The three (3) reader groups that were defined will appear in the **Reader Groups** window.

3. Time schedules will appear in the **Time Schedules** window.

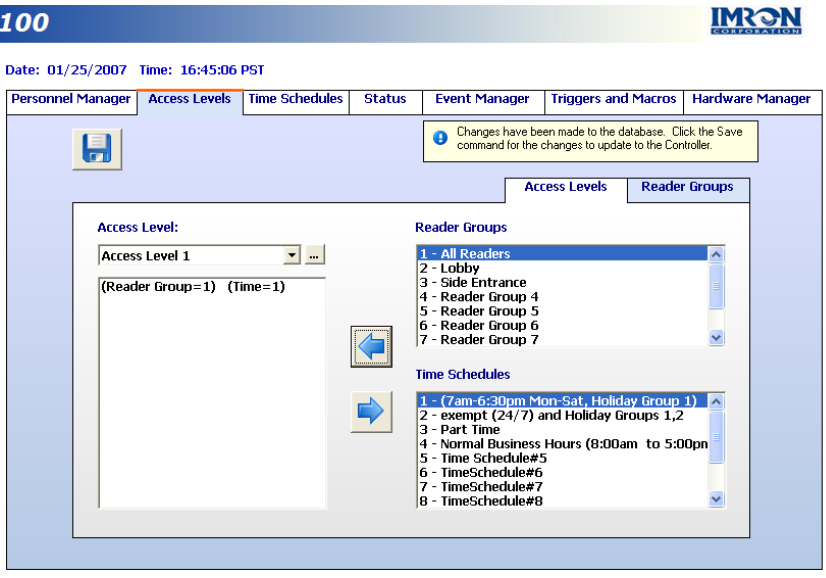
For more information on creating time schedules, please go to the Time Schedule section.



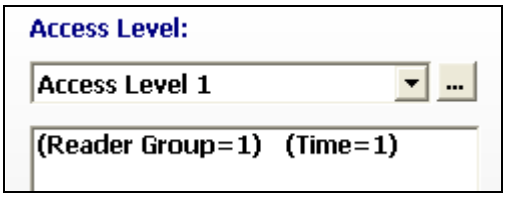
4. Click to select an Access Level (1-10) from the drop-down menu.

5. Click on one or more Reader Groups and an associated Time Schedule. To deselect, simply click the highlighted item again.

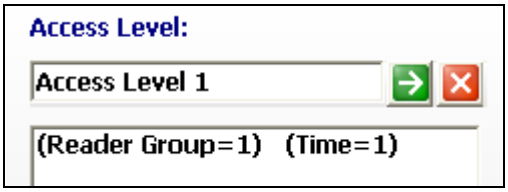
6. Click to add the Reader Group(s) with the associated Time Schedule to the selected Access Level. Click to remove the Reader Group(s) from the Access Level.



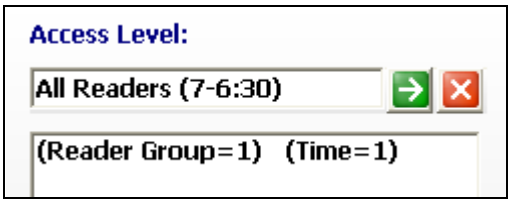
7. The Reader Group – **All Readers** with the associated Time Schedule (1) has been assigned to Access Level 1.



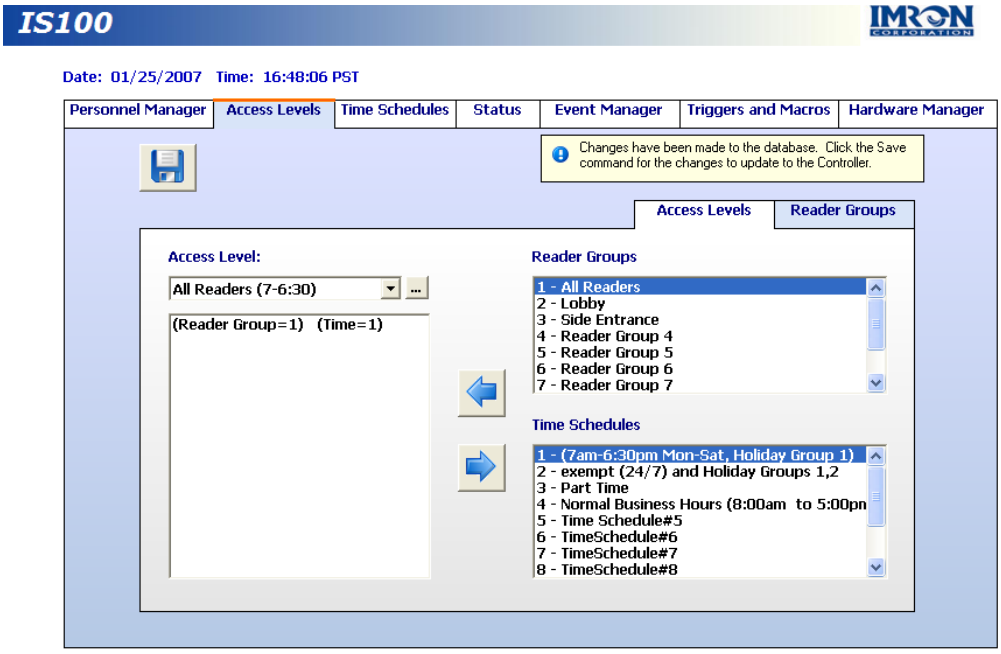
8. To rename the Access Level, click ... .



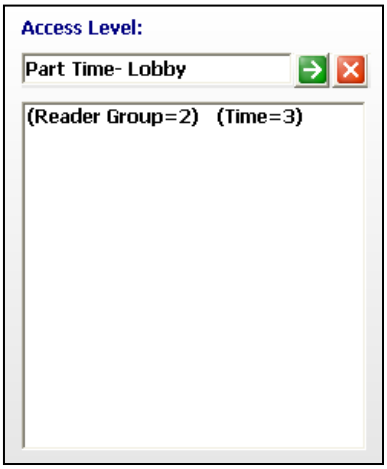
9. After clicking on ..., the buttons will change to .

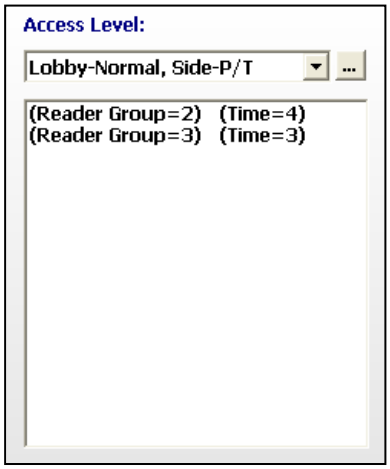


10. Type in the new name and click on to update the new Access Level. To disregard the changes click on .



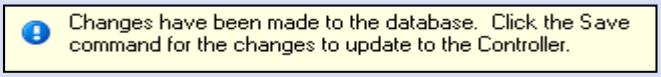
Reader Group 1 – 'All Readers' with Time Schedule 1 association has been assigned to the All Readers (7-6:30) Access Level.





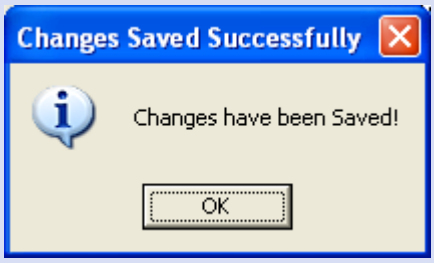
Two new Access Levels are defined: Part Time- Lobby and Lobby- Normal, Side-P/T.

The save reminder will appear when any change is made.



When multiple changes are needed, simply make all the changes, click **when complete.**

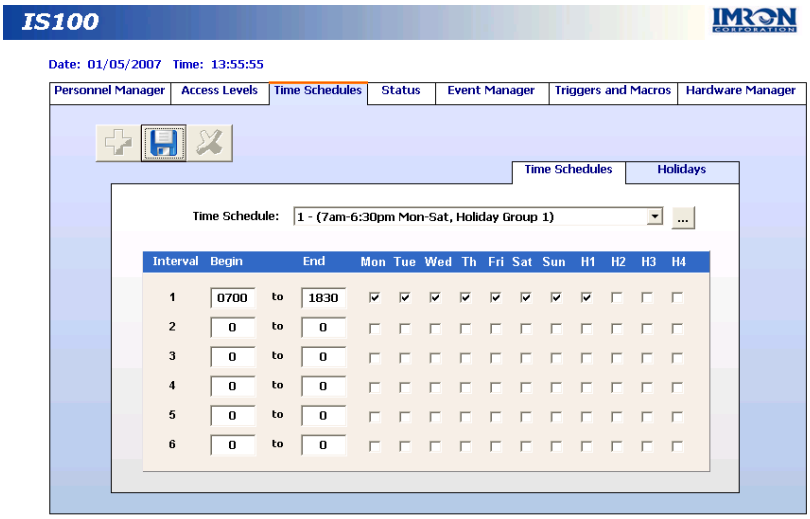
A 'Changes Saved Successfully' dialog box will appear. Click OK.



In **Time Schedules,** define schedules that can be used in association with Access Levels and Reader Groups. Typically, the Time Schedule determines when a door is accessed. The Time Schedules module consists of two sub-tabs: **Time Schedules** and **Holidays.** In the **Time Schedules** sub-tab, define schedules and the hours and days of the week (including Holidays) in which this schedule is applicable. In the **Holidays** sub-tab, define Holidays that are observed.

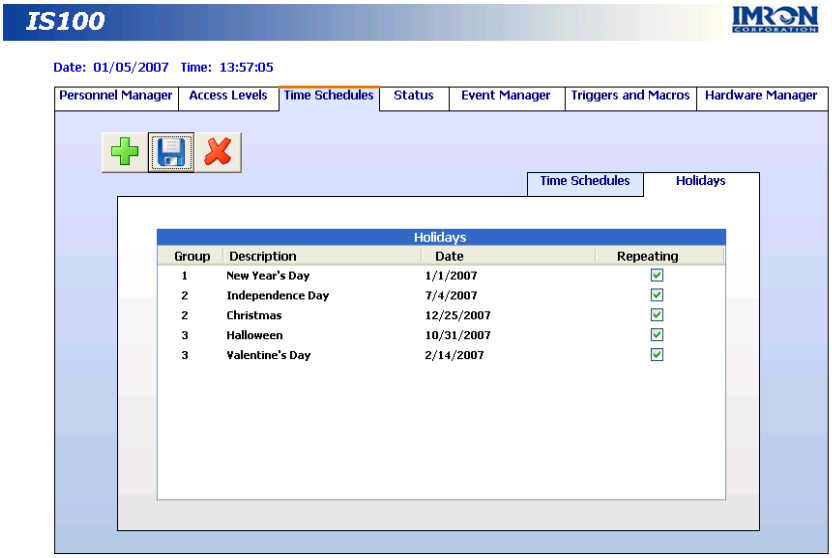
Time Schedules

Define up to 6 Time Intervals per Time Schedule and up to 12 Time Schedules.

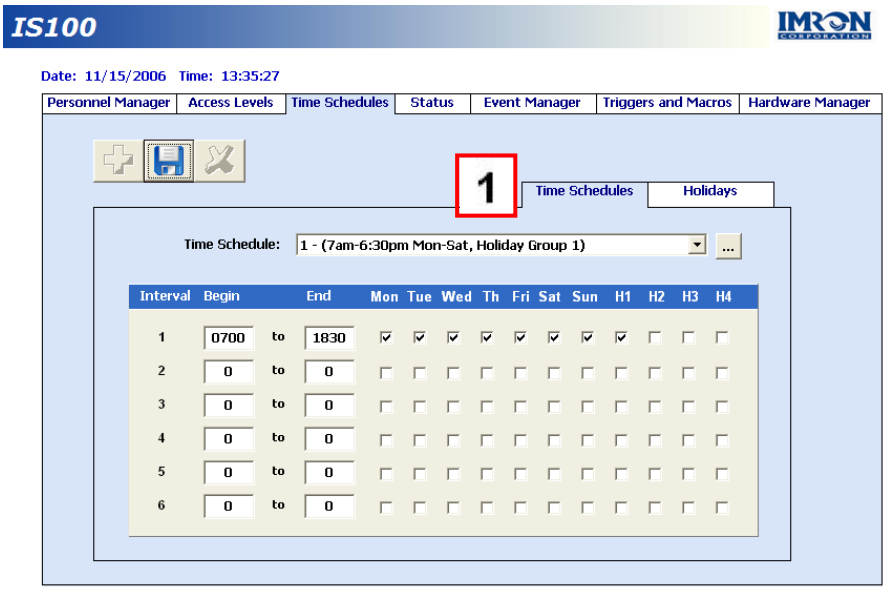


Holidays

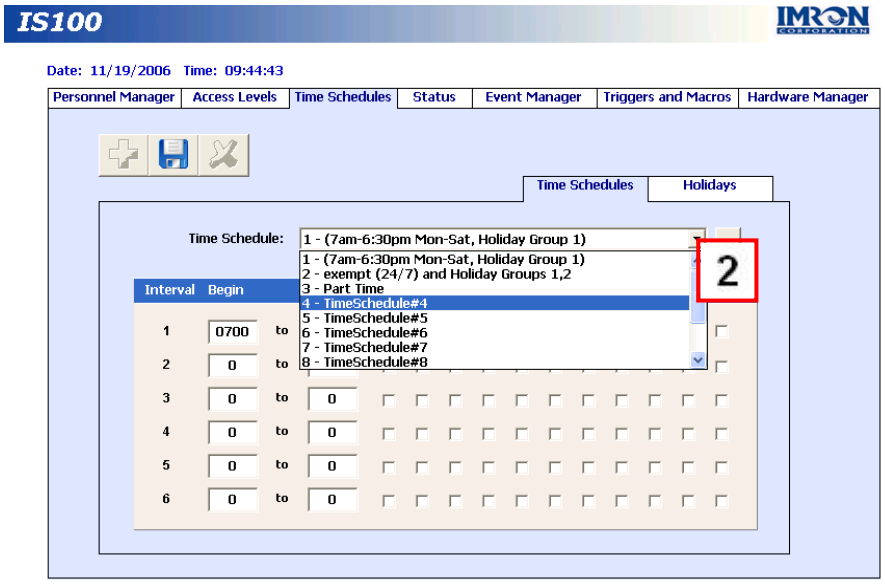
Define up to 12 Holidays.



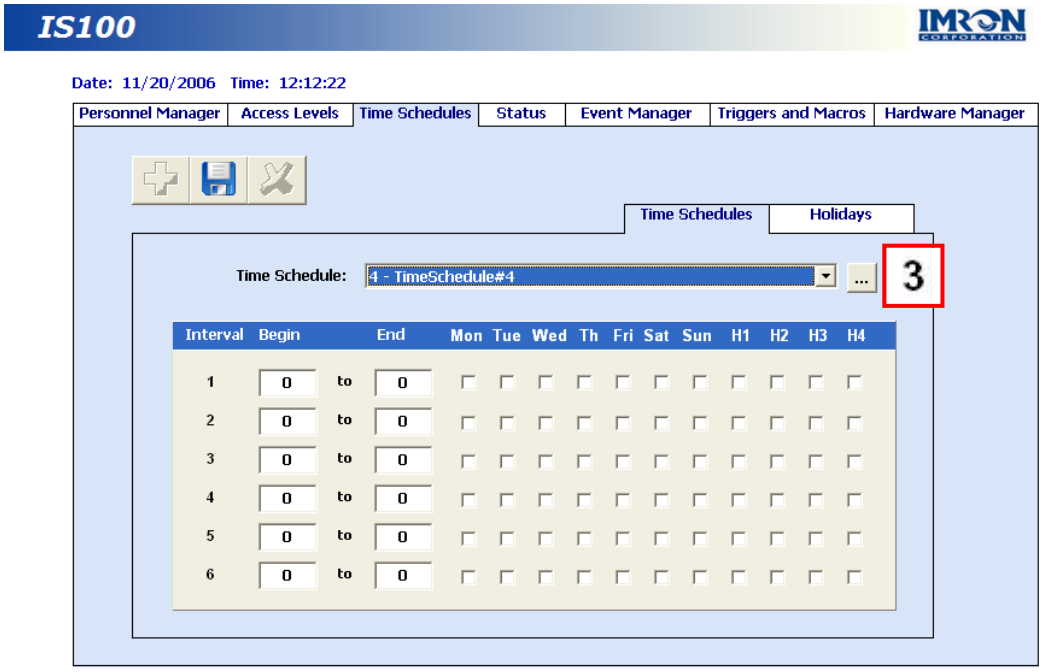
THIS SECTION COVERS TIME SCHEDULES.



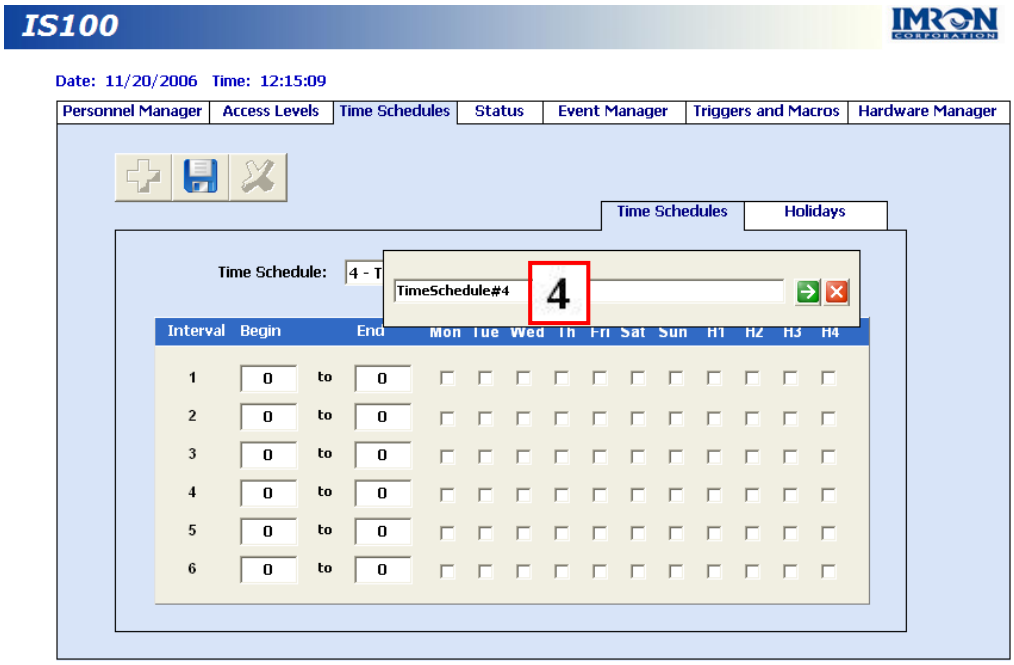
1. To create a new time schedule, first click on the drop-down menu .



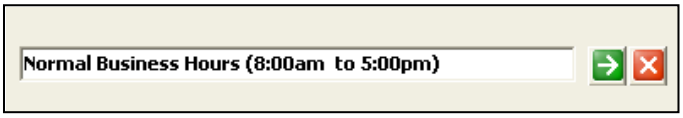
2. Select the first available Time Schedule. In this example, three (3) Time Schedules have been created.



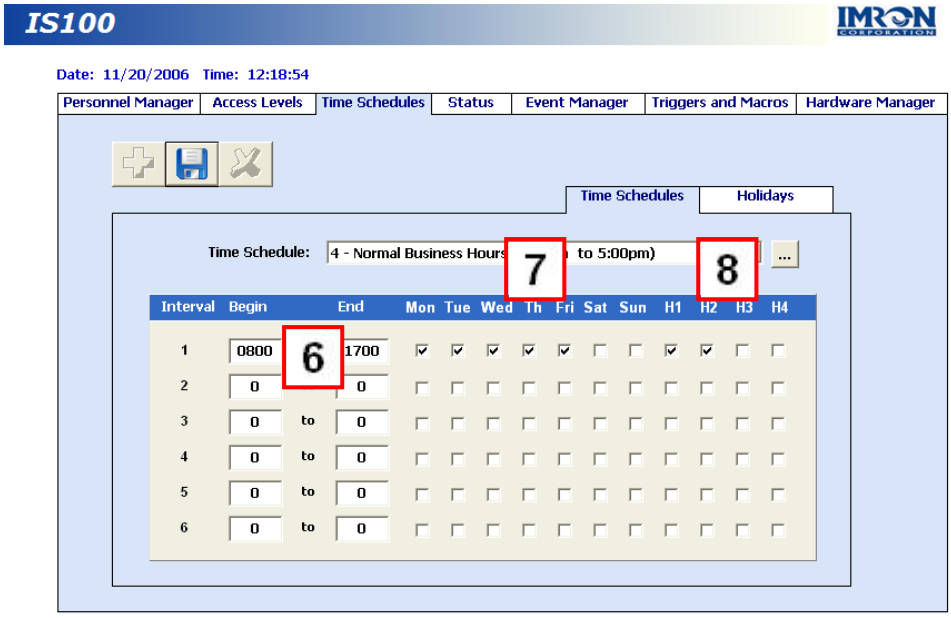
3. Click [...] to name the new Time Schedule.



4. Enter in the name of the new Time Schedule.



5. Once the new name has been entered, click to acknowledge the name and close the window. Click to close the window without acknowledging any changes.



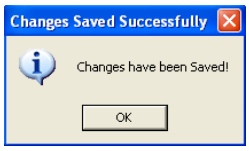
6. Enter in the Begin and End time.

Use military time for Begin and End time.

7. Place a check mark under the days of the week that will follow the schedule.

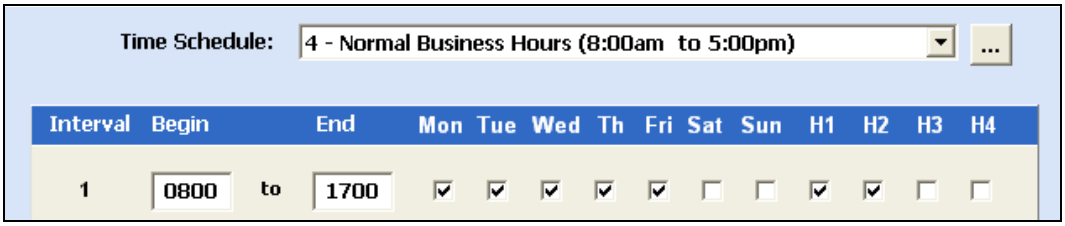
8. If applicable, place a check mark under the Holiday Groups that will also follow the Interval: H1, H2, H3 and/or H4.

9. Click to save changes. A 'Changes have been Saved!' message dialog will appear. Click OK.



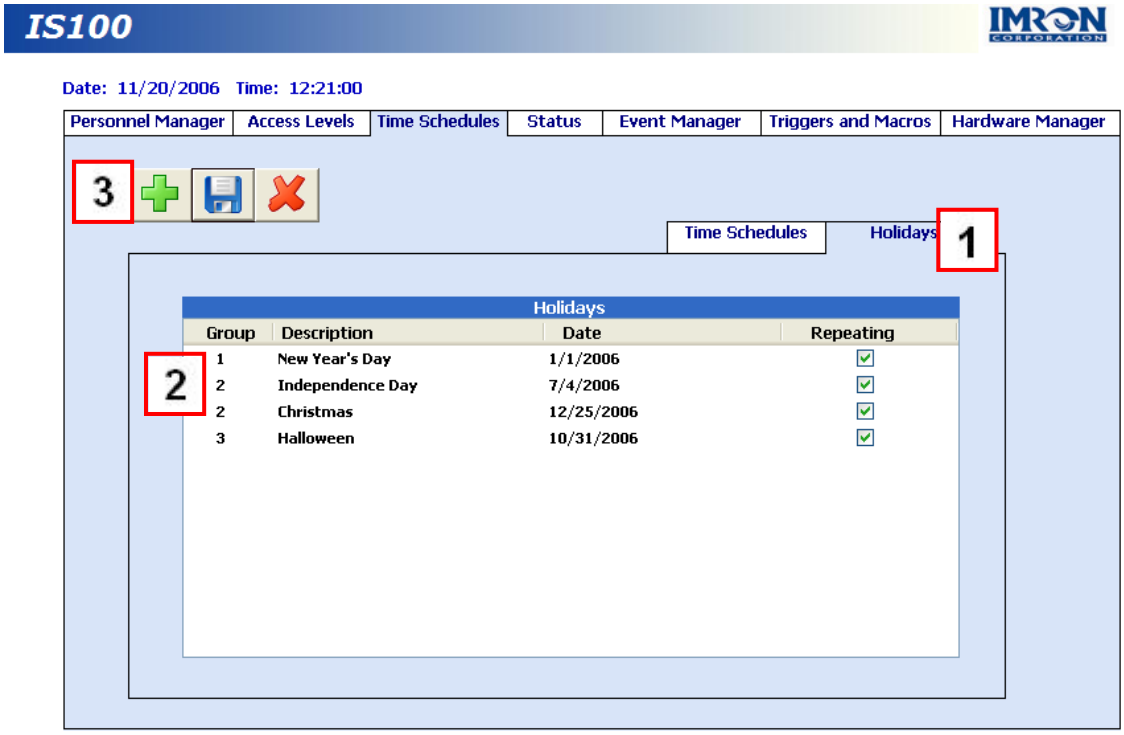
Up to 6 Intervals can be assigned to a Time Schedule.

For more information on creating Holiday Groups, please go to the Holidays section.



Time Schedule 4 'Normal Business Hours (8:00am to 5:30pm)' will GRANT ACCESS between 0800 and 1700 Monday thru Friday and during Holiday Groups: H1 and H2.

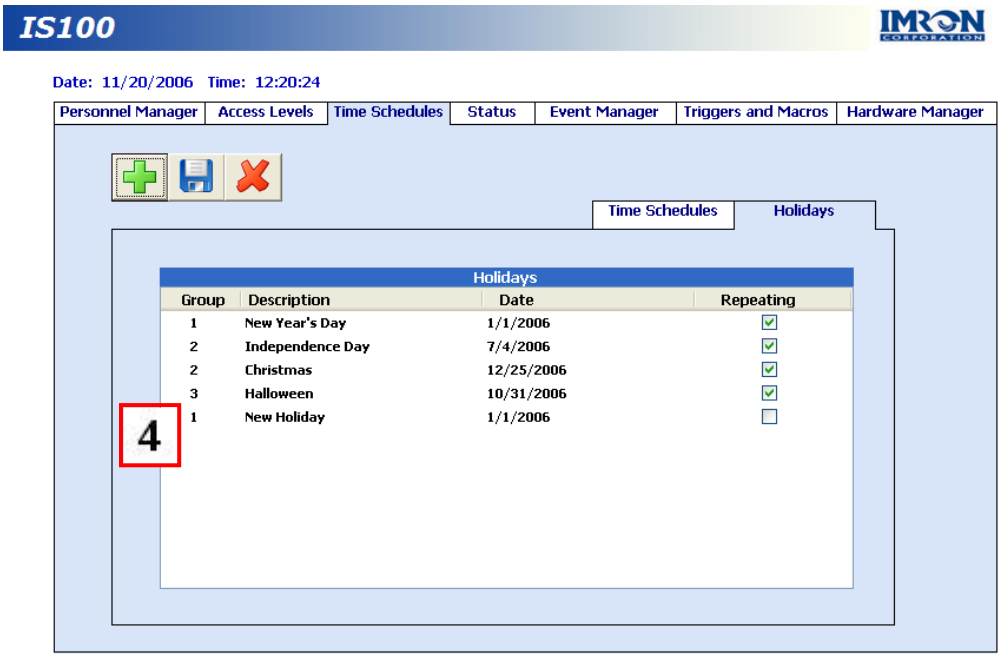
Holidays



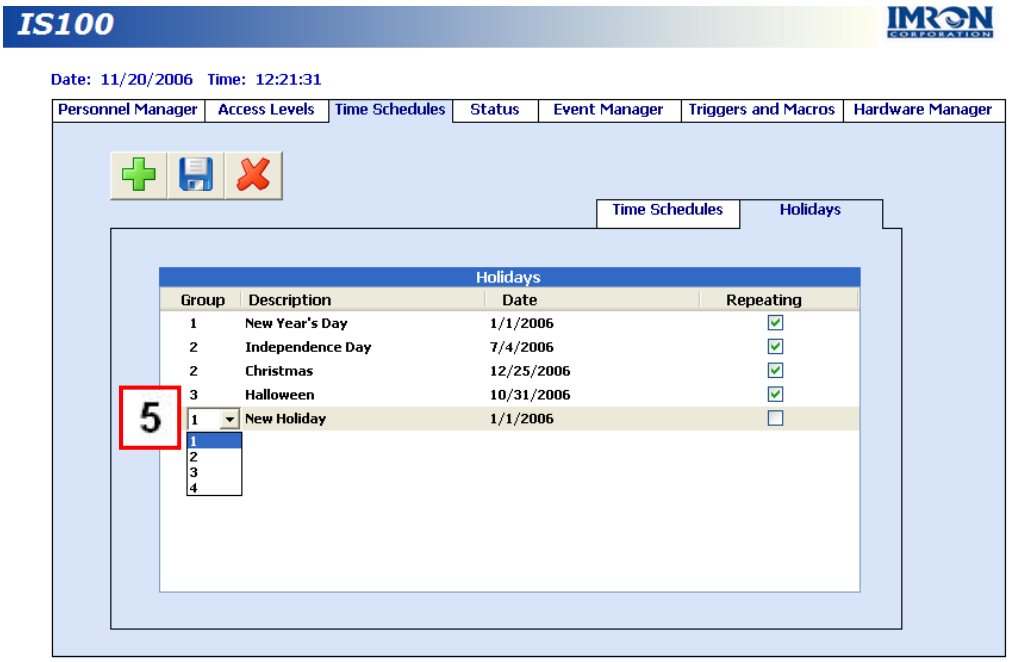
1. To create holiday(s), click on the Holidays Tab.

2. In this example, four (4) holidays have been created.

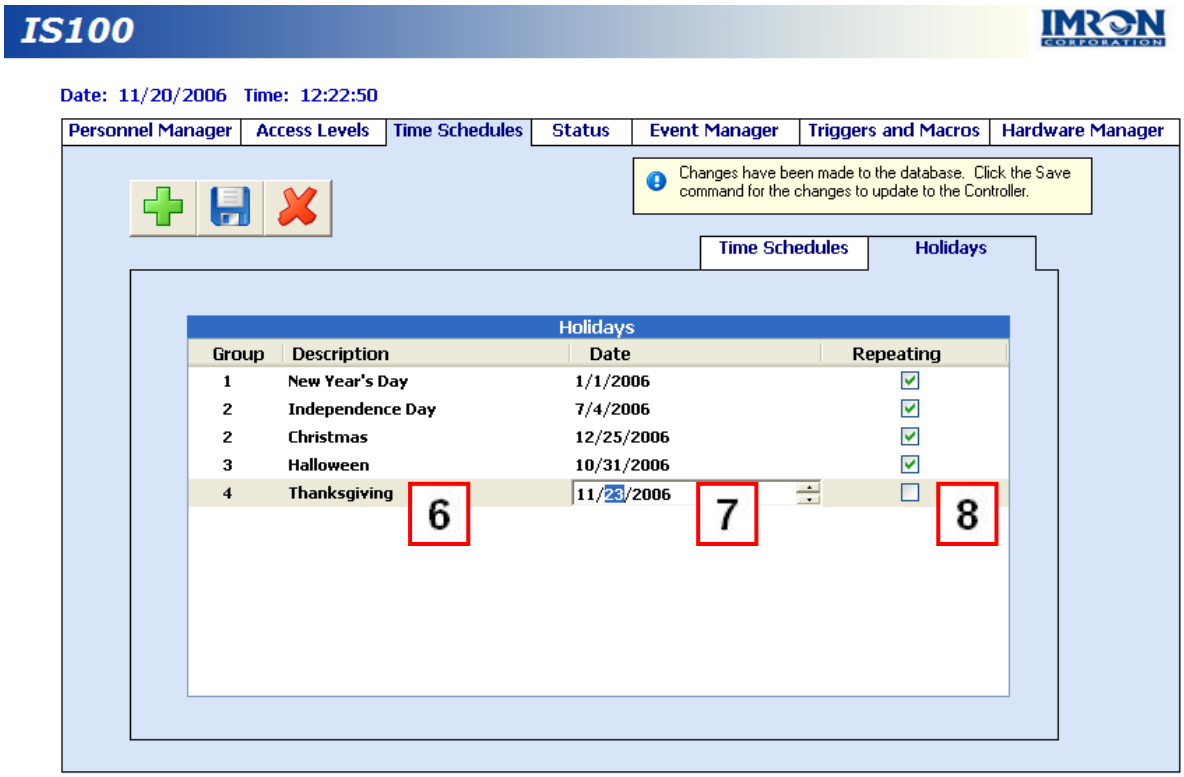
3. To add a new holiday, click .



4. A 'New Holiday' is added.



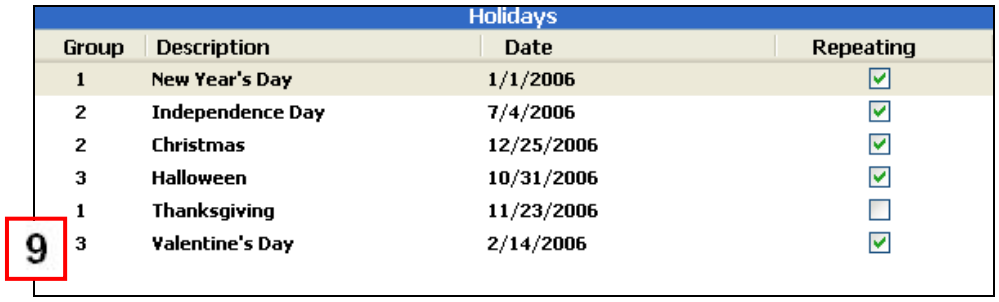
5. Click on the Group. Click on the drop-down menu and select which Holiday Group to assign this holiday to: 1=H1, 2=H2, 3=H3 and 4=H4.



6. Enter in the name (Description) of the holiday.

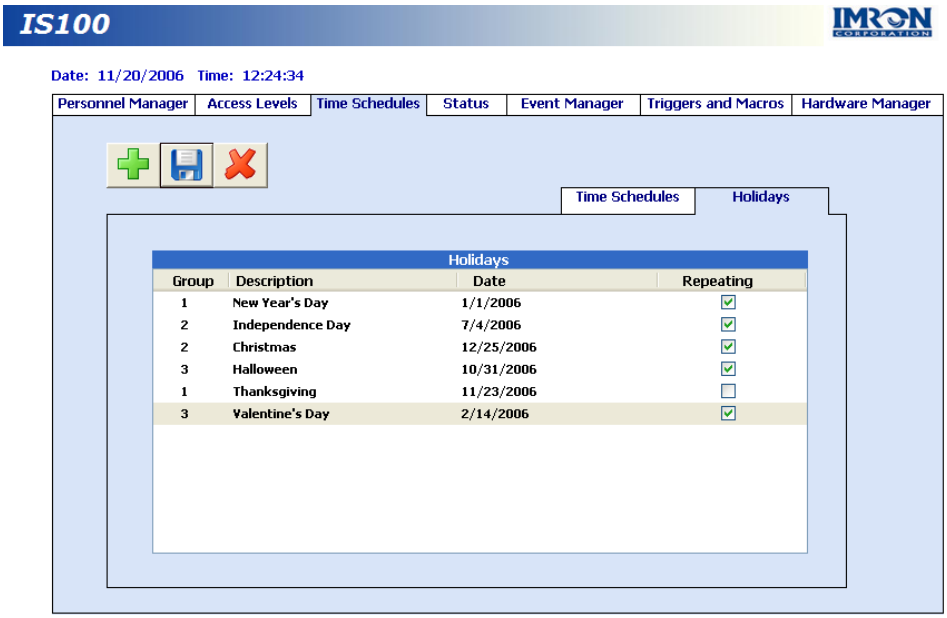
7. Enter the date the holiday will be observed. Type in the numbers or click on the up/down arrows to scroll through.

8. Place a check mark in the repeating box if the holiday occurs on the same date every year.



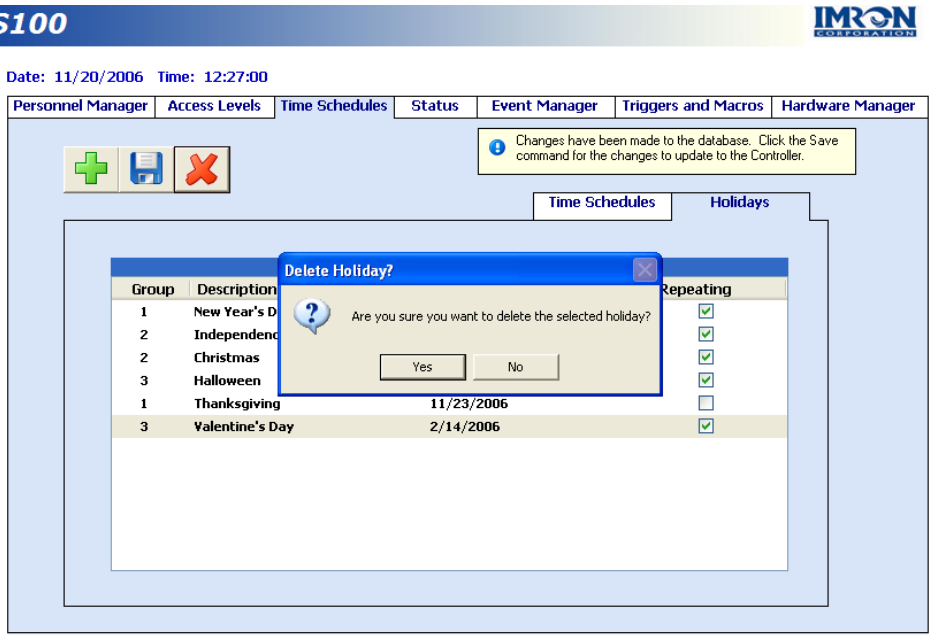
9. Another holiday, Valentine's Day is created.

Deleting Holidays



1. To delete a holiday, click on the appropriate holiday.

2. Click .

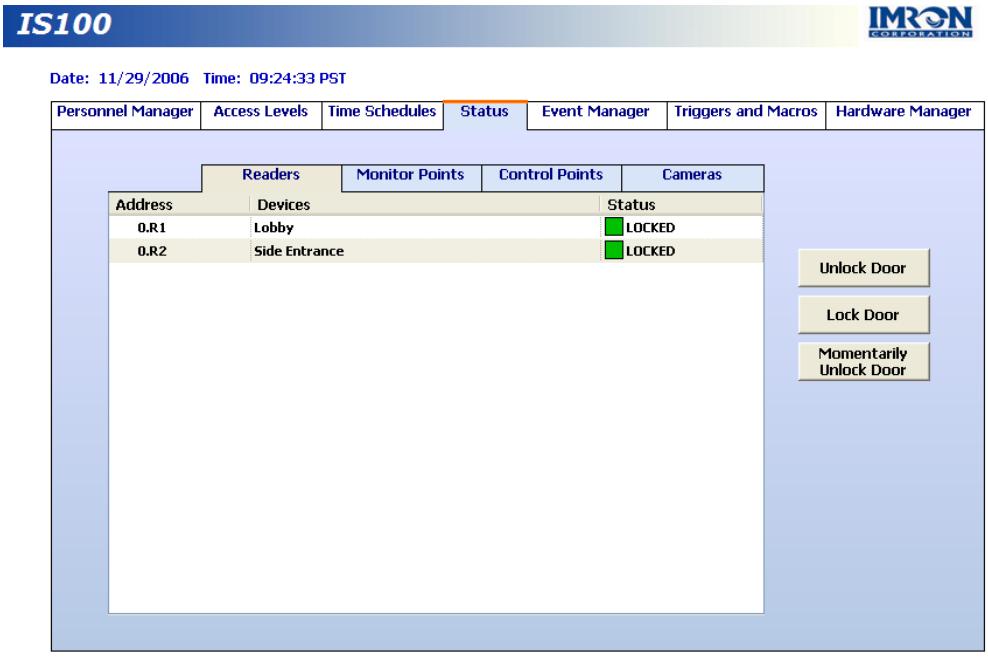


3. A 'Delete Holiday?' message dialog will appear. Click Yes.

The save reminder will appear when any change is made.

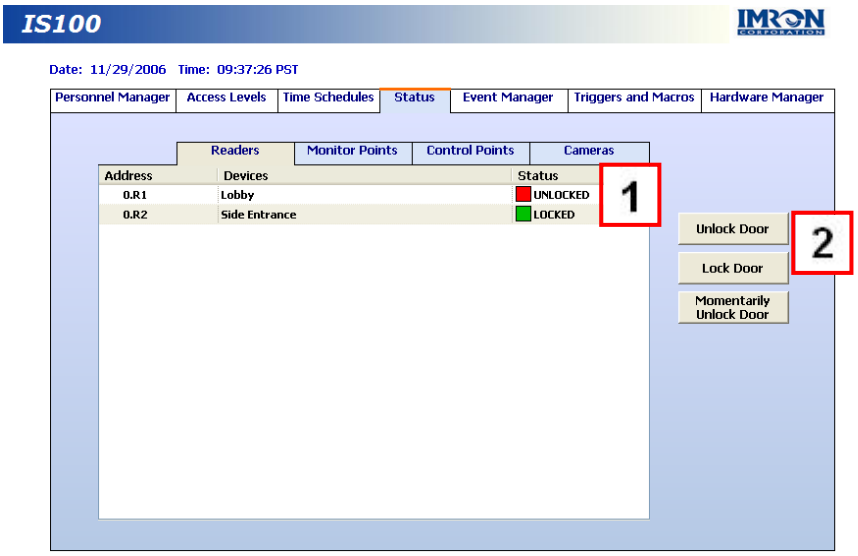
Status

The **Status** module displays a real-time view of the current condition of devices on the system. The status of each device is displayed under the corresponding sub-tabs: **Readers**, **Monitor Points** and **Control Points.** Readers and Control Points can be controlled by command buttons when a specific device is selected. Under the **Cameras** sub-tab, IP addresses for DVRs and/or individual IP Cameras can be entered (up to 16 views / addresses) and then triggered to pop-up in a viewing window. Associated camera functions can be used on this page while viewing the camera.



THIS SECTION COVERS STATUS FOR READERS, MONITOR POINTS (INPUTS), CONTROL POINTS AND CAMERAS

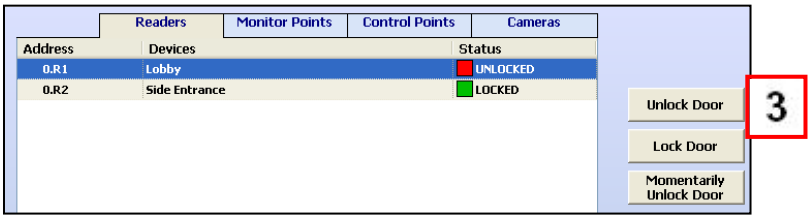
Readers



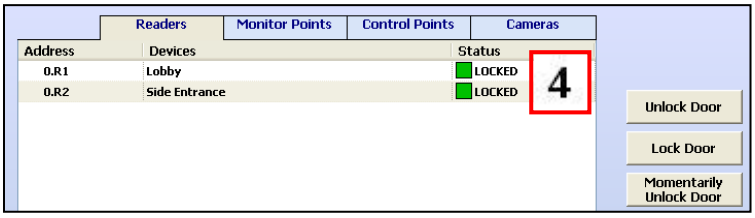
1. View real-time status of Readers.

Doors (readers) can follow Time Schedules. Please see the Access Levels section.

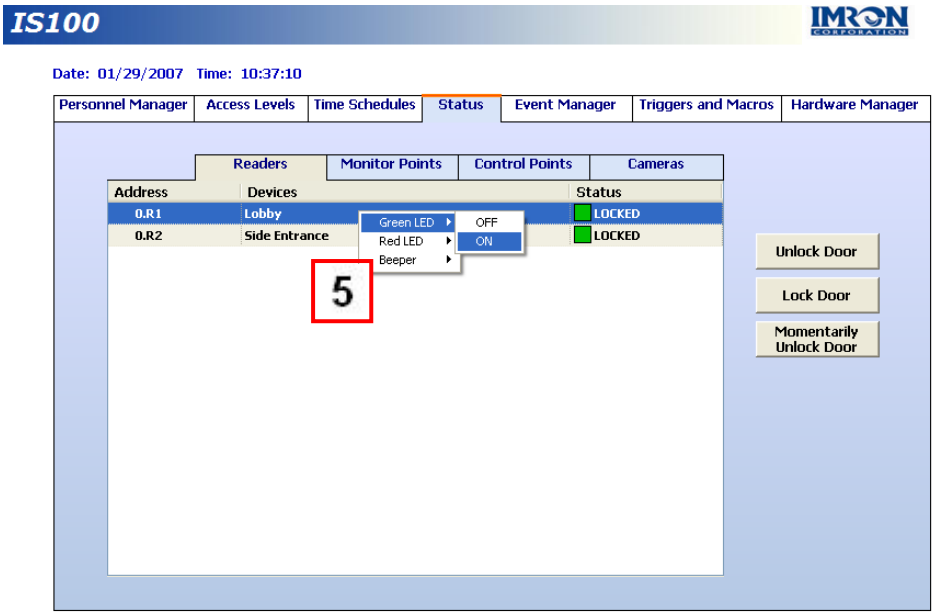
2. To manually Unlock a Door, Lock a Door, or Momentarily Unlock a Door, first click on the appropriate reader.



3. The first reader with address 0.R.1, Lobby, is currently unlocked. To lock the door, click on the Lock Door button.



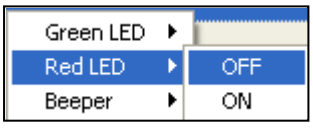
4. The status has been changed to Locked.



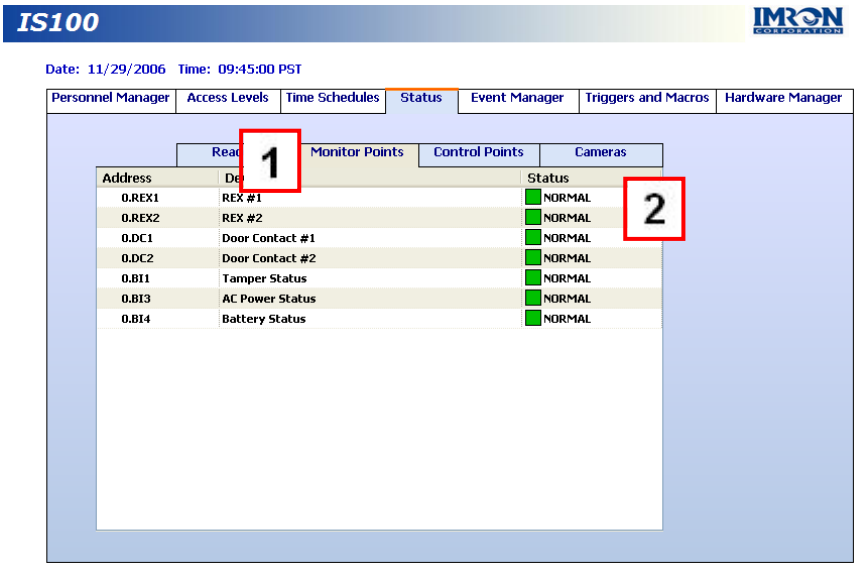
5. Under Readers, the cursor changes to , indicating that additional commands are available on a right mouse-click. These commands can change the state of the reader LEDs and the beeper to ON or OFF.

6. To change the state of the LEDs and/or beeper, first select the appropriate reader. Right mouse-click to call up the popup menu.

7. Go to the option that requires the change. For example, to turn the Red LED off, go to **Red LED** and select **OFF**.

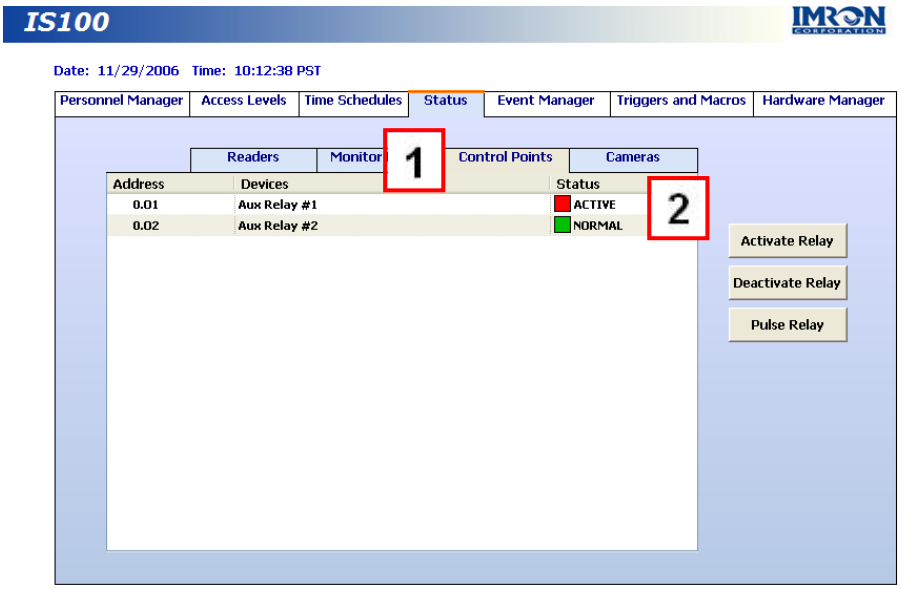


Monitor Points (Inputs)

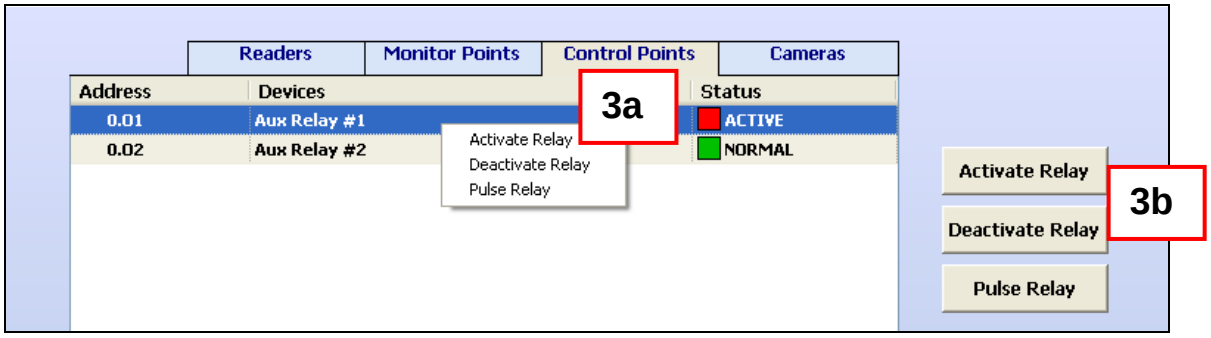


1. To view real-time status of Monitor Points (Inputs), click on the Monitor Points sub-tab.
2. Status of inputs, such as Door Contacts, is displayed.

Control Points



1. To view real-time status of Control Points, click on the Control Points sub-tab.
2. Status of control points, such as Auxiliary Relays, is displayed.

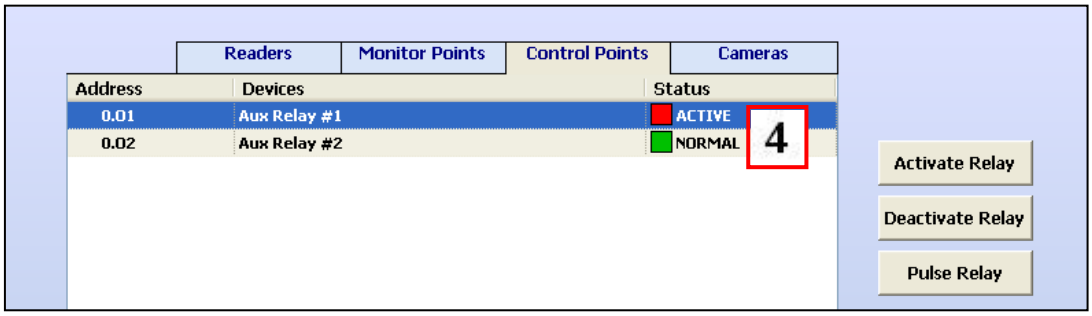


3. There are two ways to manually Activate a Relay, Deactivate a Relay or Pulse a Relay. First click on the appropriate relay (control point).

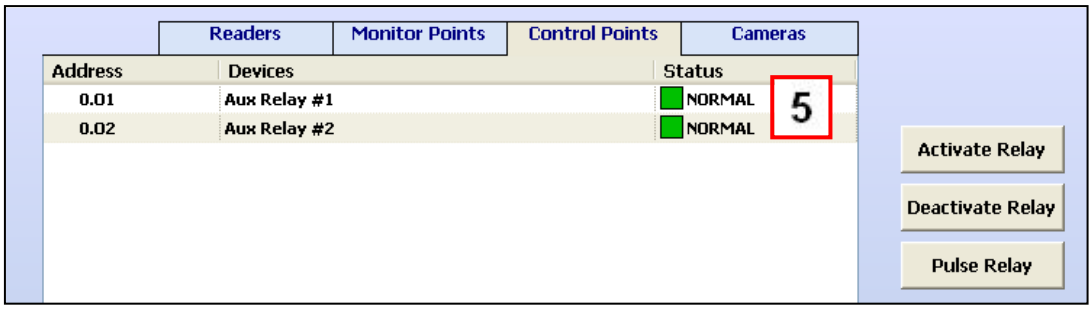
a. Under Control Points, the cursor changes to , indicating that additional commands are available on a right mouse-click. These commands include: **Activate a Relay**, **Deactivate Relay**, and **Pulse Relay**. To perform any of these commands, simple click on the command.

-OR-

b. Click on the command from the Relay buttons.

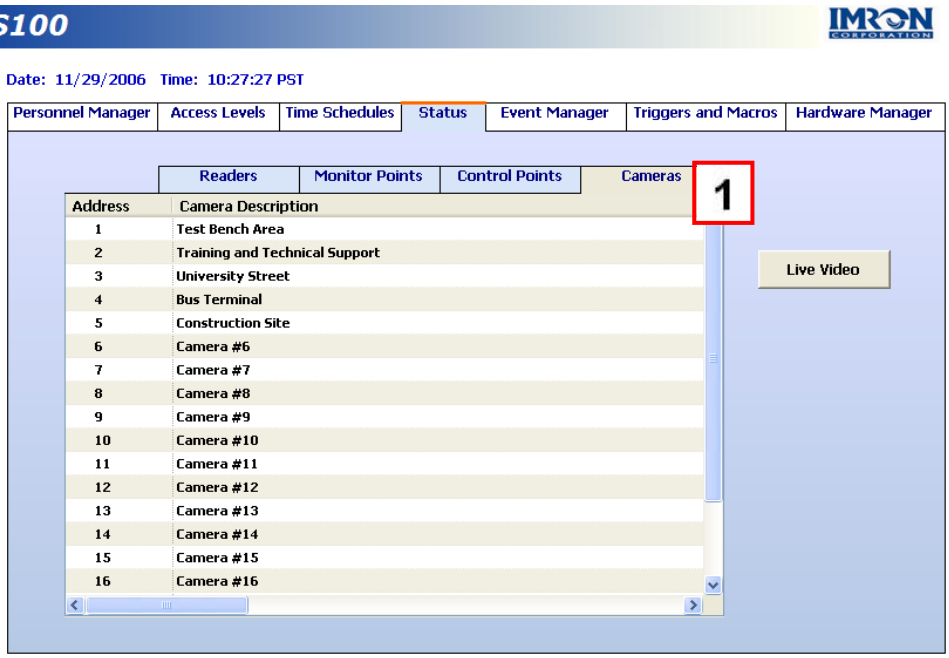


4. Aux Relay #1 with address 0.01 is active. To deactivate the relay, click on the relay and click on the Deactivate Relay button.

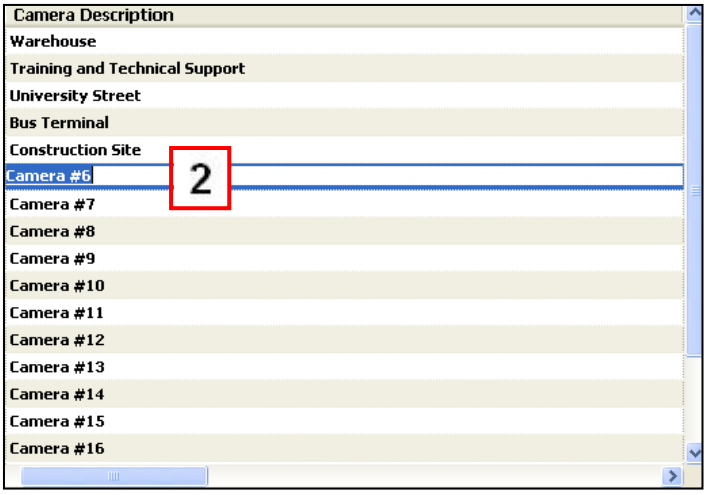


5. The status has been changed to Normal.

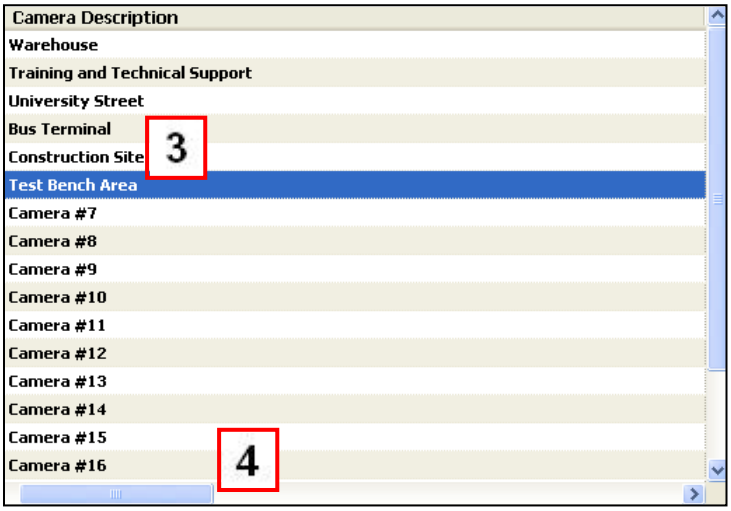
Cameras



1. To view live video, click on the Cameras sub-tab.

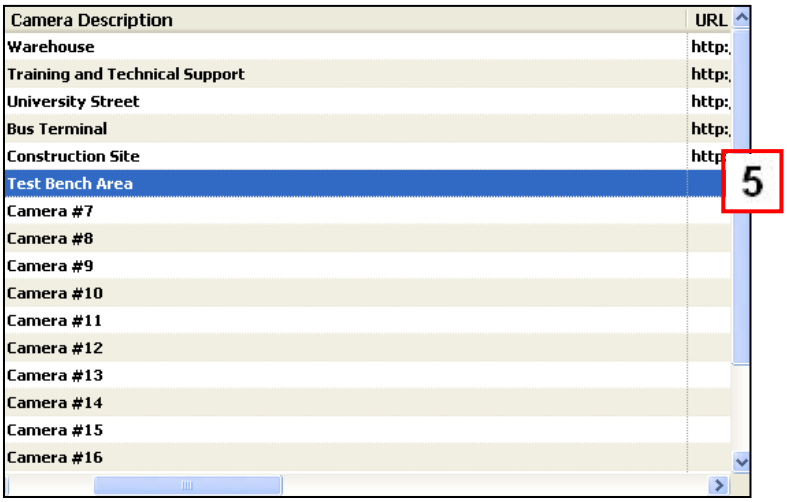


2. To add IP cameras, Digital Video Recorders (DVR), or Network Video Recorders (NVR), double click on the Camera Description. If some slots are already in use, simply double-click on the next available one.

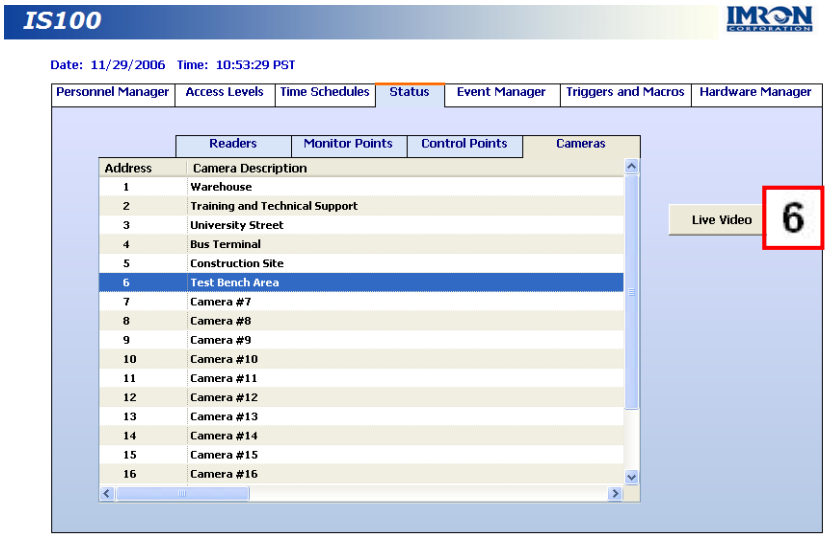


3. Type in the Camera Description.

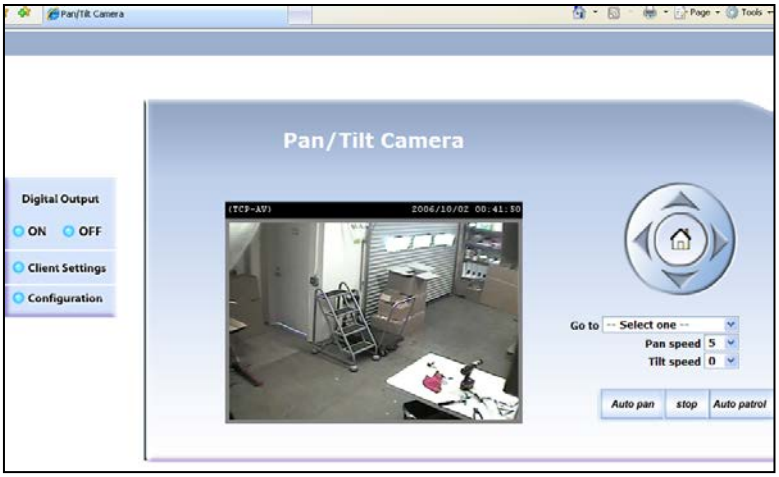
4. Scroll to the right.



5. Double-click on the URL slot. Type in the URL.



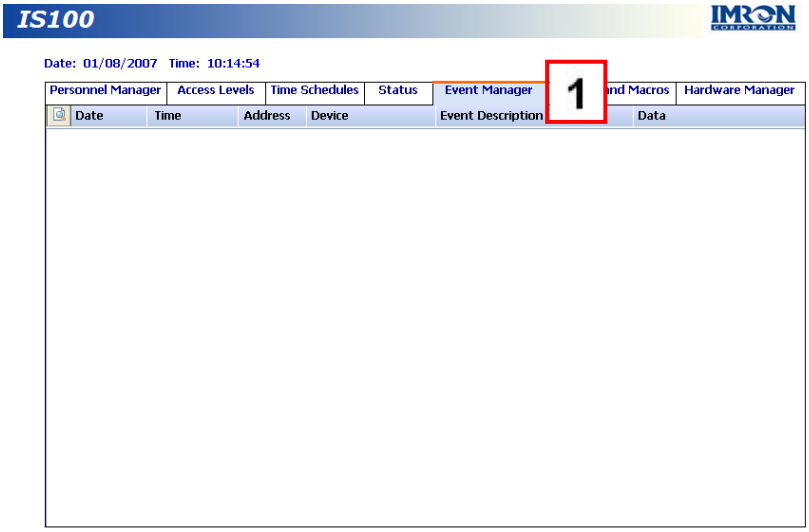
6. Click on Live Video.



7. A new window displaying live video of the selected camera is launched.

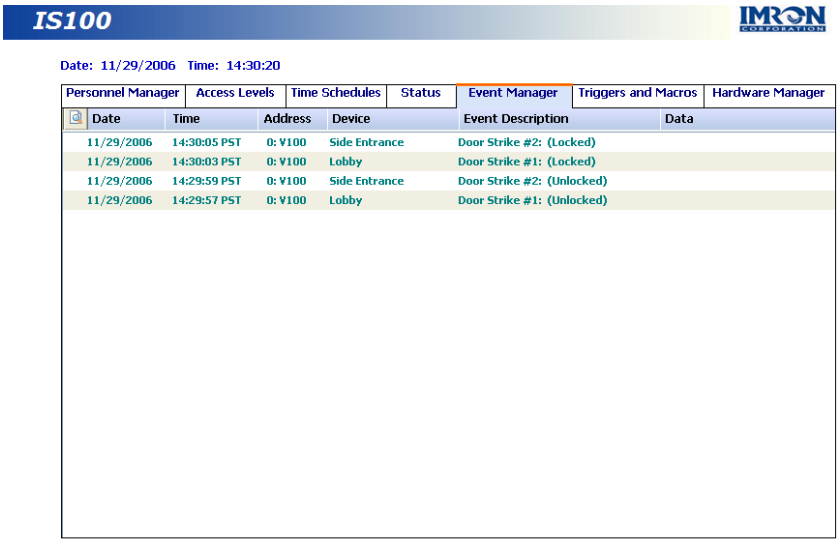
Event Manager

The **Event Manager** displays real-time events from the system. View events and generate various system-wide reports.

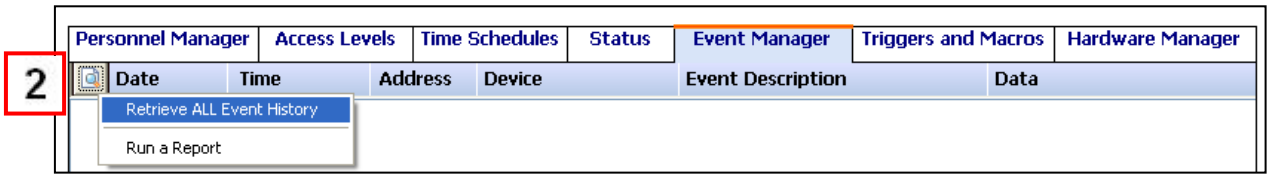


1. To go to the Event Manager, click on the Event Manager tab.

When connecting to Ness 'V' Series controllers, events are buffered on the controller and are not displayed. These events can easily be retrieved, see #2 below.



The events occurring after connecting to Ness 'V' Series controllers are reported.

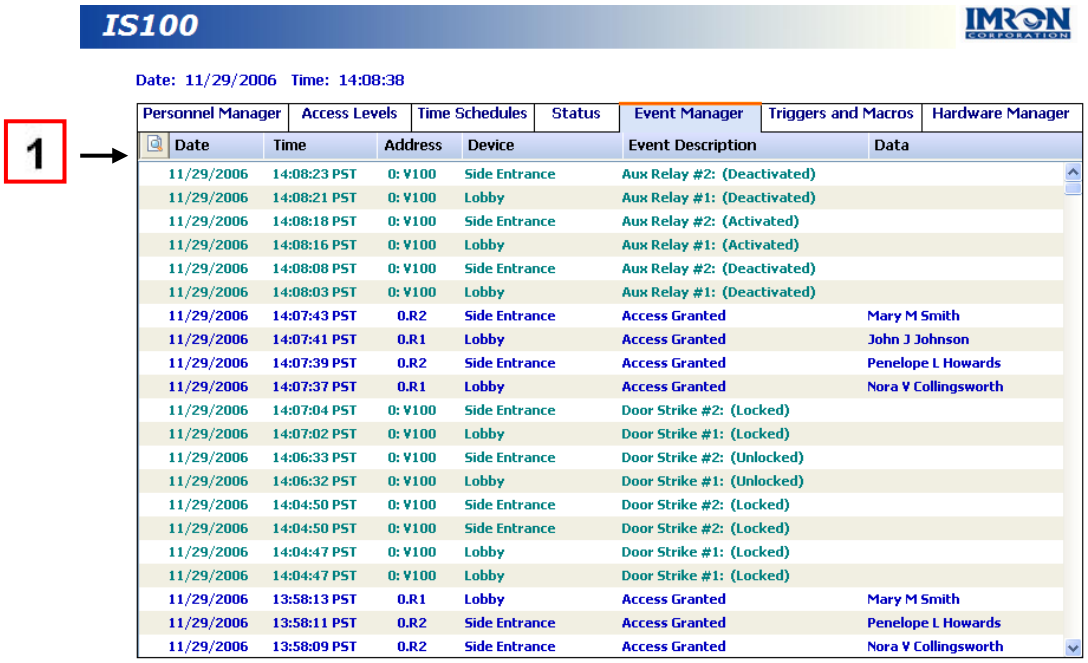


2. To retrieve events stored on Ness 'V' Series controllers, click and select 'Retrieve ALL Event History'.

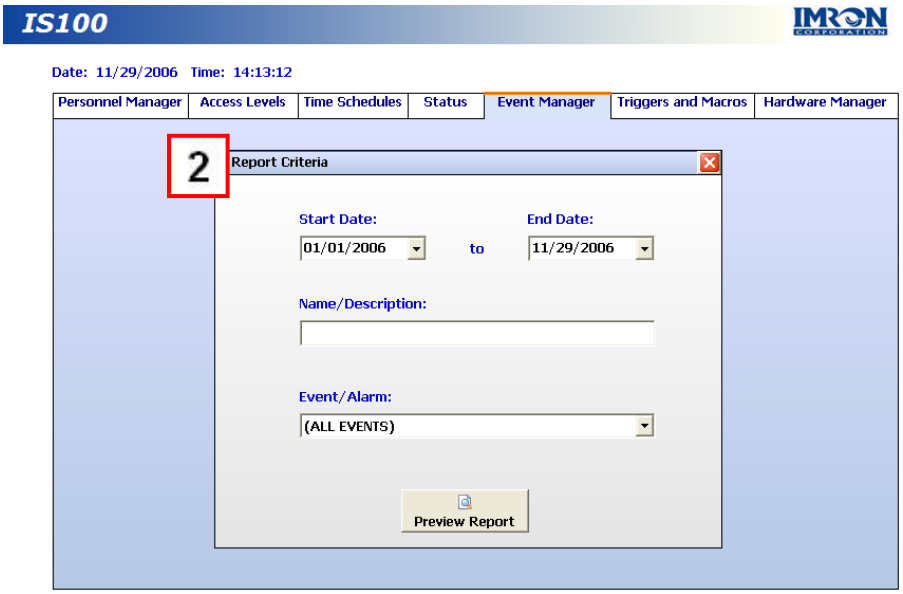
IS100
IMRON
Date: 11/29/2006 Time: 14:08:38
Personnel Manager
Access Levels
Time Schedules
Status
Event Manager
Triggers and Macros
Hardware Manager
Date
Time
Address
Device
Event Description
Data
11/29/2006 14:08:23 PST 0: V100 Side Entrance Aux Relay #2: (Deactivated)
11/29/2006 14:08:21 PST 0: V100 Lobby Aux Relay #1: (Deactivated)
11/29/2006 14:08:18 PST 0: V100 Side Entrance Aux Relay #2: (Activated)
11/29/2006 14:08:16 PST 0: V100 Lobby Aux Relay #1: (Activated)
11/29/2006 14:08:08 PST 0: V100 Side Entrance Aux Relay #2: (Deactivated)
11/29/2006 14:08:03 PST 0: V100 Lobby Aux Relay #1: (Deactivated)
11/29/2006 14:07:43 PST 0.R2 Side Entrance Access Granted Mary M Smith
11/29/2006 14:07:41 PST 0.R1 Lobby Access Granted John J Johnson
11/29/2006 14:07:39 PST 0.R2 Side Entrance Access Granted Penelope L Howards
11/29/2006 14:07:37 PST 0.R1 Lobby Access Granted Nora V Collingsworth
11/29/2006 14:07:04 PST 0: V100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:07:02 PST 0: V100 Lobby Door Strike #1: (Locked)
11/29/2006 14:06:33 PST 0: V100 Side Entrance Door Strike #2: (Unlocked)
11/29/2006 14:06:32 PST 0: V100 Lobby Door Strike #1: (Unlocked)
11/29/2006 14:04:50 PST 0: V100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:04:50 PST 0: V100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:04:47 PST 0: V100 Lobby Door Strike #1: (Locked)
11/29/2006 14:04:47 PST 0: V100 Lobby Door Strike #1: (Locked)
11/29/2006 13:58:13 PST 0.R1 Lobby Access Granted Mary M Smith
11/29/2006 13:58:11 PST 0.R2 Side Entrance Access Granted Penelope L Howards
11/29/2006 13:58:09 PST 0.R2 Side Entrance Access Granted Nora V Collingsworth
3

3. All events are now displayed, beginning with the most recent event. Scroll to view the events.

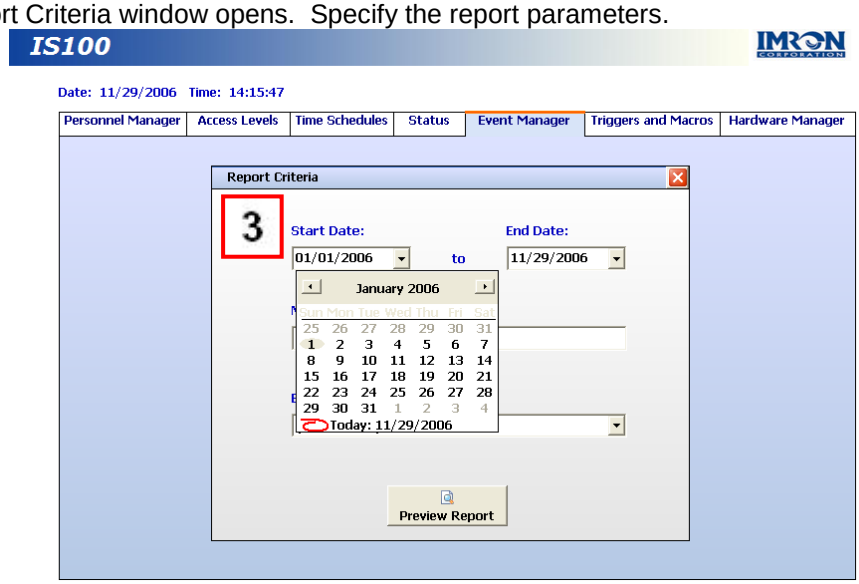
Reports


IS100
Date: 11/29/2006 Time: 14:08:38
Personnel Manager
Access Levels
Time Schedules
Status
Event Manager
Triggers and Macros
Hardware Manager
1
Date
Time
Address
Device
Event Description
Data
11/29/2006 14:08:23 PST 0: V100 Side Entrance Aux Relay #2: (Deactivated)
11/29/2006 14:08:21 PST 0: V100 Lobby Aux Relay #1: (Deactivated)
11/29/2006 14:08:18 PST 0: V100 Side Entrance Aux Relay #2: (Activated)
11/29/2006 14:08:16 PST 0: V100 Lobby Aux Relay #1: (Activated)
11/29/2006 14:08:08 PST 0: V100 Side Entrance Aux Relay #2: (Deactivated)
11/29/2006 14:08:03 PST 0: V100 Lobby Aux Relay #1: (Deactivated)
11/29/2006 14:07:43 PST 0.R2 Side Entrance Access Granted Mary M Smith
11/29/2006 14:07:41 PST 0.R1 Lobby Access Granted John J Johnson
11/29/2006 14:07:39 PST 0.R2 Side Entrance Access Granted Penelope L Howards
11/29/2006 14:07:37 PST 0.R1 Lobby Access Granted Nora V Collingsworth
11/29/2006 14:07:04 PST 0: V100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:07:02 PST 0: V100 Lobby Door Strike #1: (Locked)
11/29/2006 14:06:33 PST 0: V100 Side Entrance Door Strike #2: (Unlocked)
11/29/2006 14:06:32 PST 0: V100 Lobby Door Strike #1: (Unlocked)
11/29/2006 14:04:50 PST 0: V100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:04:50 PST 0: V100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:04:47 PST 0: V100 Lobby Door Strike #1: (Locked)
11/29/2006 14:04:47 PST 0: V100 Lobby Door Strike #1: (Locked)
11/29/2006 13:58:13 PST 0.R1 Lobby Access Granted Mary M Smith
11/29/2006 13:58:11 PST 0.R2 Side Entrance Access Granted Penelope L Howards
11/29/2006 13:58:09 PST 0.R2 Side Entrance Access Granted Nora V Collingsworth

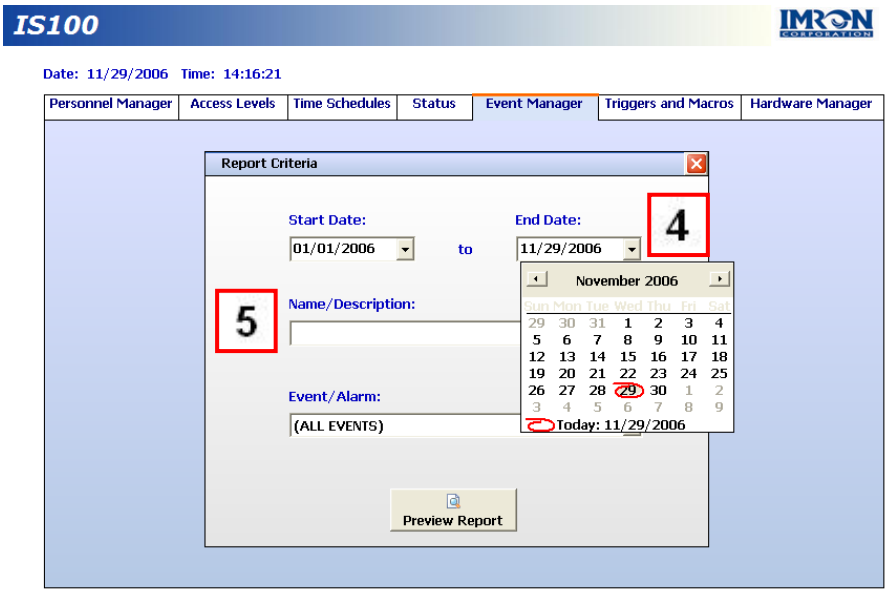
1. Once all events are retrieved, reports can be generated. Click .



2. A Report Criteria window opens. Specify the report parameters.

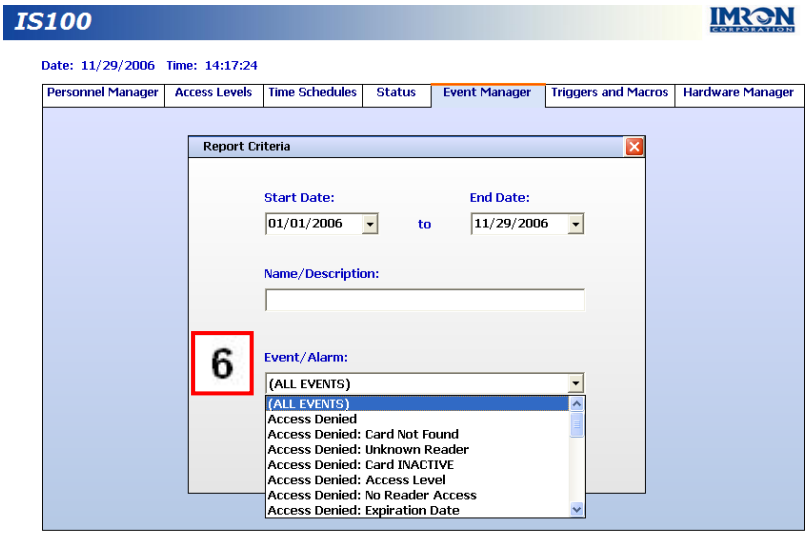


3. Enter the Start Date for the report. Enter the date manually or select the date from the calendar. Use ◄ ► to scroll through, click on the appropriate date.

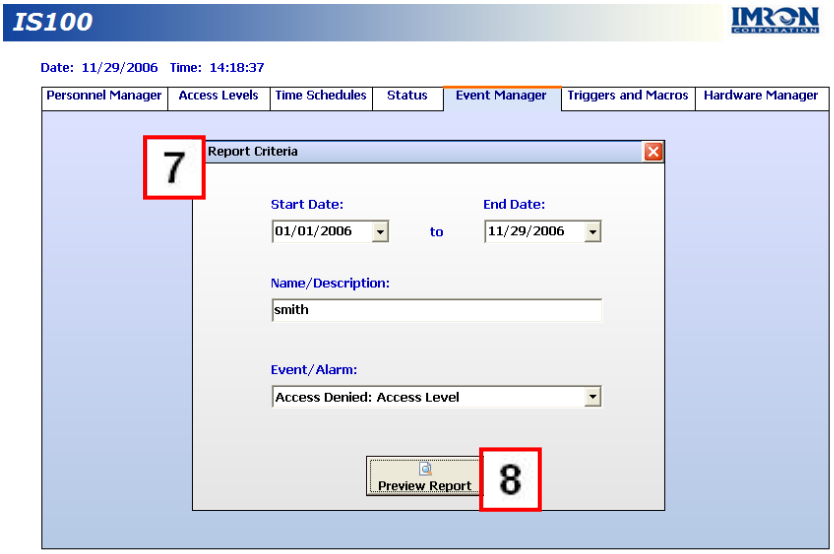


4. Enter the End Date for the report. Enter the date manually or select the date from the calendar. Use ◄ ► to scroll through, click on the appropriate date.

5. The Name/Description field represents information under the Data column in the Event Manager. Type in the name/description, i.e. cardholder name.

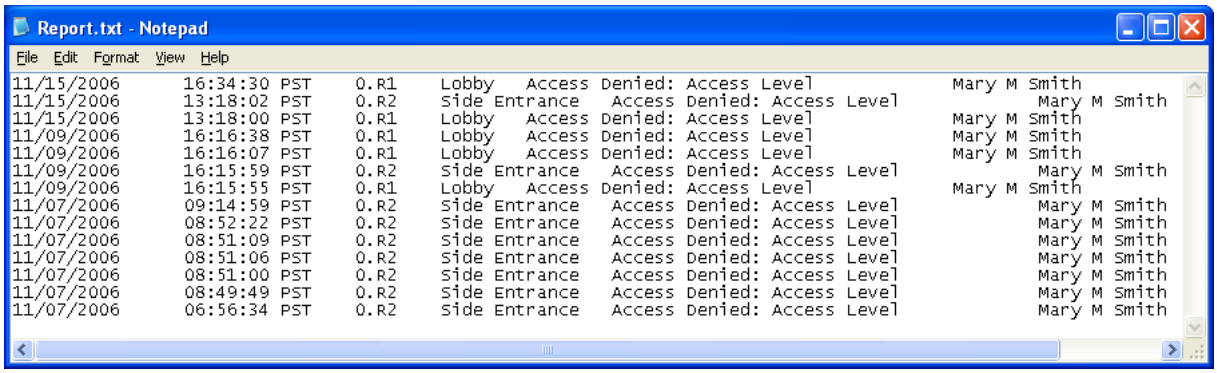


6. Select a specific event for the report.

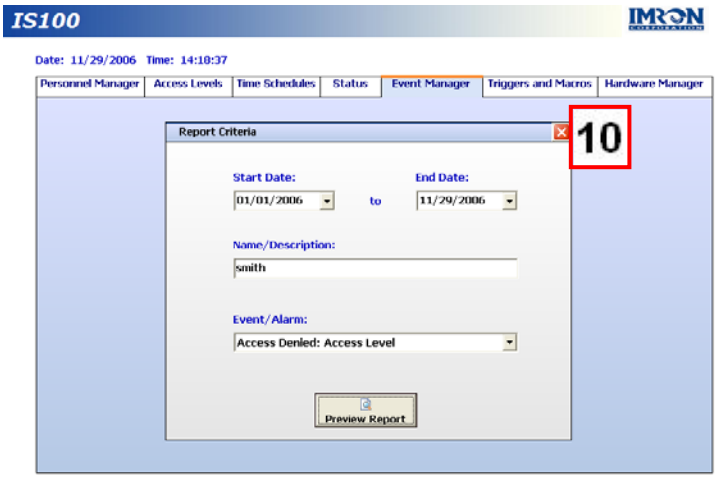


7. An example of a report criteria, run a report for any cardholder with the name of Smith and has had Access Denied: Access Level from 01/01/2006 to 11/29/2006.

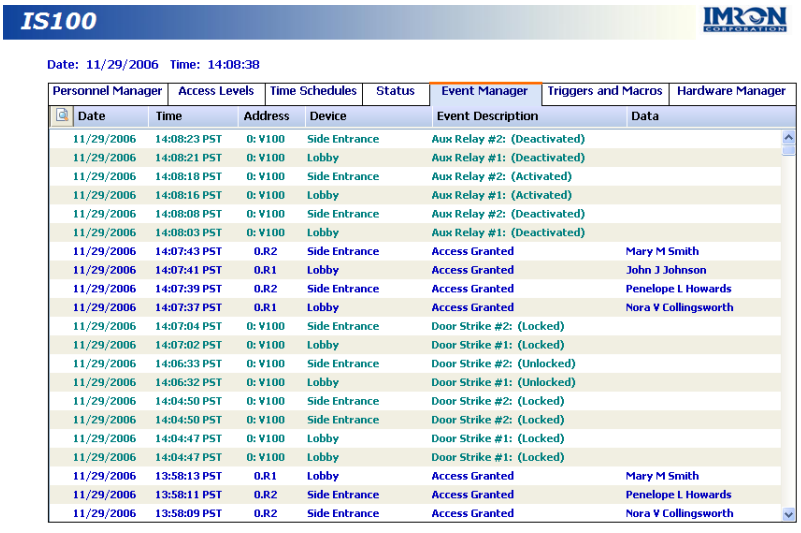
8. After these parameters have been entered, click on ‘Preview Report’.


Report.txt - Notepad
File Edit Format View Help
11/15/2006 16:34:30 PST 0.R1 Lobby Access Denied: Access Level Mary M Smith
11/15/2006 13:18:02 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/15/2006 13:18:00 PST 0.R1 Lobby Access Denied: Access Level Mary M Smith
11/09/2006 16:16:38 PST 0.R1 Lobby Access Denied: Access Level Mary M Smith
11/09/2006 16:16:07 PST 0.R1 Lobby Access Denied: Access Level Mary M Smith
11/09/2006 16:15:59 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/09/2006 16:15:55 PST 0.R1 Lobby Access Denied: Access Level Mary M Smith
11/07/2006 09:14:59 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/07/2006 08:52:22 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/07/2006 08:51:09 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/07/2006 08:51:06 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/07/2006 08:51:00 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/07/2006 08:49:49 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith
11/07/2006 06:56:34 PST 0.R2 Side Entrance Access Denied: Access Level Mary M Smith

9. A .txt report is returned. This report can be saved, printed, and/or emailed.

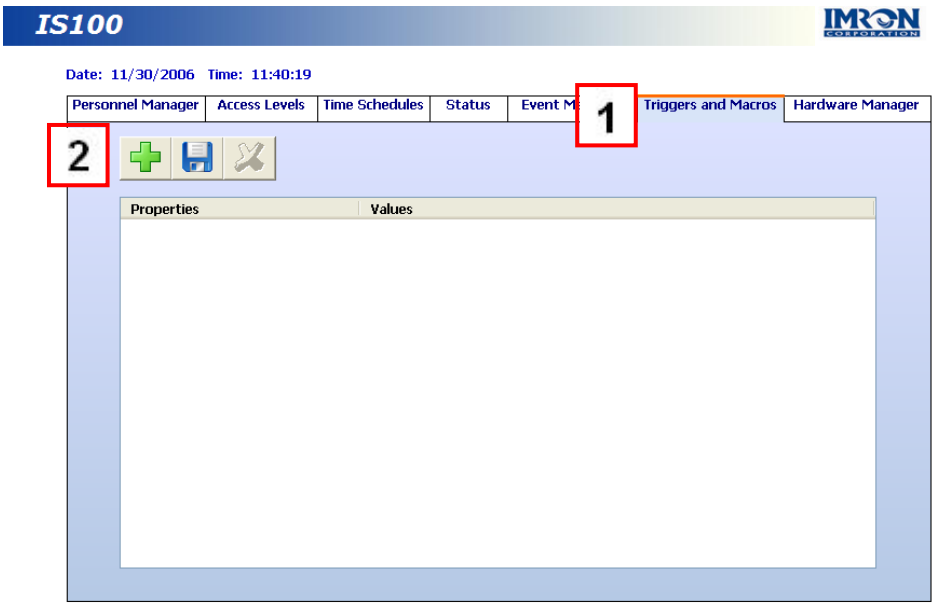


10. Once reporting is complete, simply click to return to the Event Manager.


IS100
IMRON
Date: 11/29/2006 Time: 14:08:38
Personnel Manager
Access Levels
Time Schedules
Status
Event Manager
Triggers and Macros
Hardware Manager
Date Time Address Device Event Description Data
11/29/2006 14:08:23 PST 0:¥100 Side Entrance Aux Relay #2: (Deactivated)
11/29/2006 14:08:21 PST 0:¥100 Lobby Aux Relay #1: (Deactivated)
11/29/2006 14:08:18 PST 0:¥100 Side Entrance Aux Relay #2: (Activated)
11/29/2006 14:08:16 PST 0:¥100 Lobby Aux Relay #1: (Activated)
11/29/2006 14:08:08 PST 0:¥100 Side Entrance Aux Relay #2: (Deactivated)
11/29/2006 14:08:03 PST 0:¥100 Lobby Aux Relay #1: (Deactivated)
11/29/2006 14:07:43 PST 0.R2 Side Entrance Access Granted Mary M Smith
11/29/2006 14:07:41 PST 0.R1 Lobby Access Granted John J Johnson
11/29/2006 14:07:39 PST 0.R2 Side Entrance Access Granted Penelope L Howards
11/29/2006 14:07:37 PST 0.R1 Lobby Access Granted Nora ¥ Collingsworth
11/29/2006 14:07:04 PST 0:¥100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:07:02 PST 0:¥100 Lobby Door Strike #1: (Locked)
11/29/2006 14:06:33 PST 0:¥100 Side Entrance Door Strike #2: (Unlocked)
11/29/2006 14:06:32 PST 0:¥100 Lobby Door Strike #1: (Unlocked)
11/29/2006 14:04:50 PST 0:¥100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:04:50 PST 0:¥100 Side Entrance Door Strike #2: (Locked)
11/29/2006 14:04:47 PST 0:¥100 Lobby Door Strike #1: (Locked)
11/29/2006 14:04:47 PST 0:¥100 Lobby Door Strike #1: (Locked)
11/29/2006 13:58:13 PST 0.R1 Lobby Access Granted Mary M Smith
11/29/2006 13:58:11 PST 0.R2 Side Entrance Access Granted Penelope L Howards
11/29/2006 13:58:09 PST 0.R2 Side Entrance Access Granted Nora ¥ Collingsworth

Triggers and Macros

The **Triggers and Macros** module allows programming of procedures based on specific events. A Trigger is defined as an event that occurs in the system with specific properties. These Triggers are linked to execute Macros. A Macro is a command or a set of sequential commands put together. Triggers and Macros can be programmed to occur during defined Time Schedules



Toolbar

The Triggers and Macros Toolbar consists of three buttons: Add, Save, and Delete. The functions of these buttons are defined below.

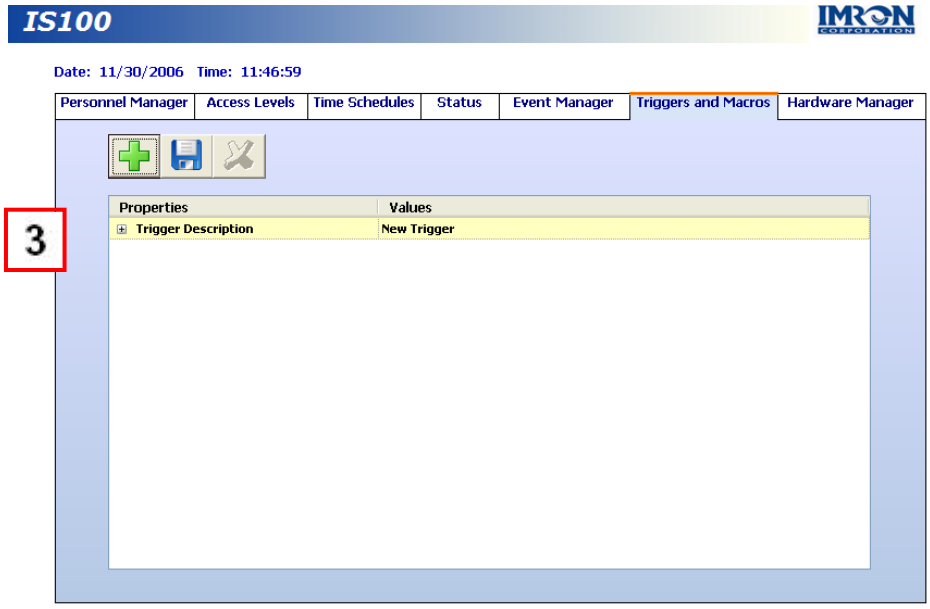
Adds a New Trigger.

Saves any modifications, changes, and edits made in Triggers and Macros.

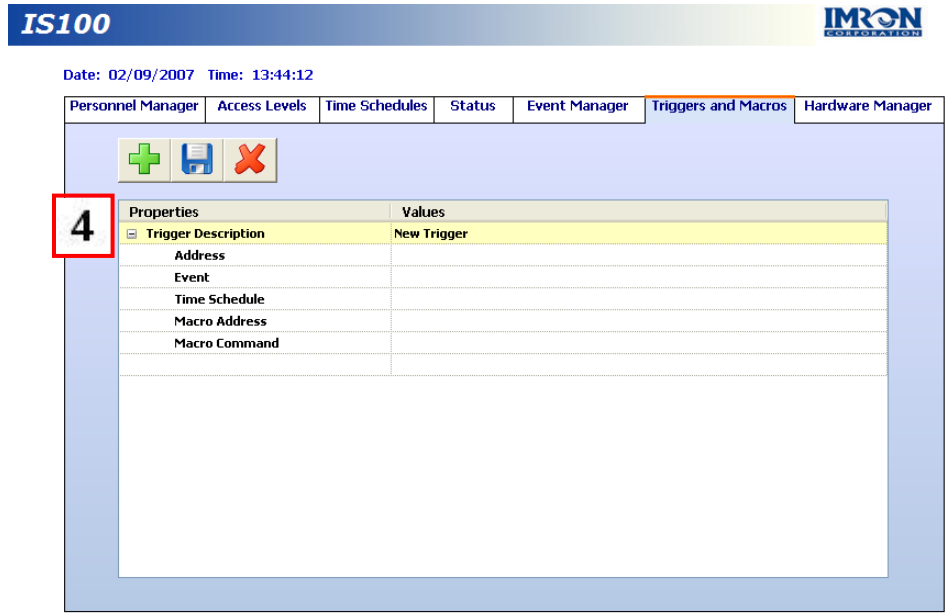
Deletes an existing Trigger.

1. To go to Triggers and Macros, click on the Triggers and Macros tab.

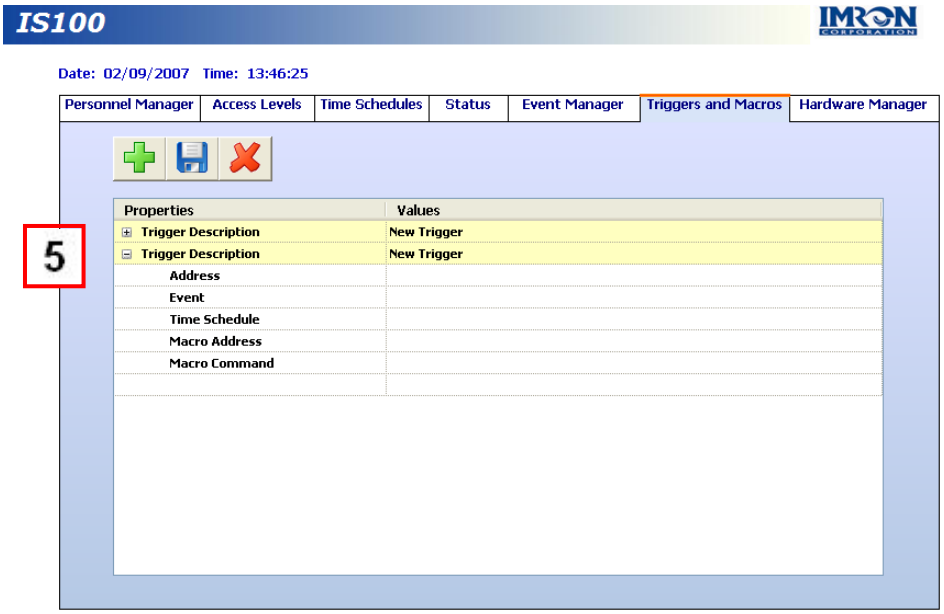
2. To add a trigger, click .



3. Click ⊞ to expand the Properties and Values.

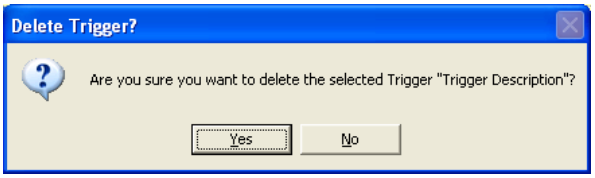


4. Expanding reveals the properties and values, which are defined below. To collapse the tree, simply click ⊟.

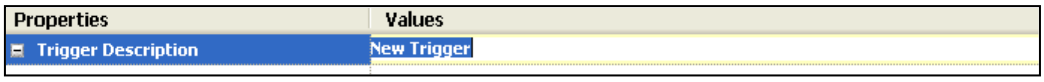


5. To delete a trigger, select the appropriate trigger. Click .

6. A 'Delete Trigger?' message dialog will appear. The message dialog reconfirms that the selected Trigger will be deleted. Click Yes.



7. A trigger name can be added to the Trigger and Macro. Simply click on the New Trigger to highlight. Type in the name.

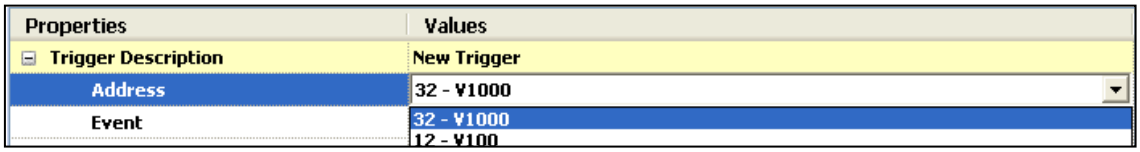


8. Define the address that the trigger will originate from. Choose from the controllers (V1000 or V2000) or the sub-controllers that are installed. Next, select the event which will initiate the trigger.

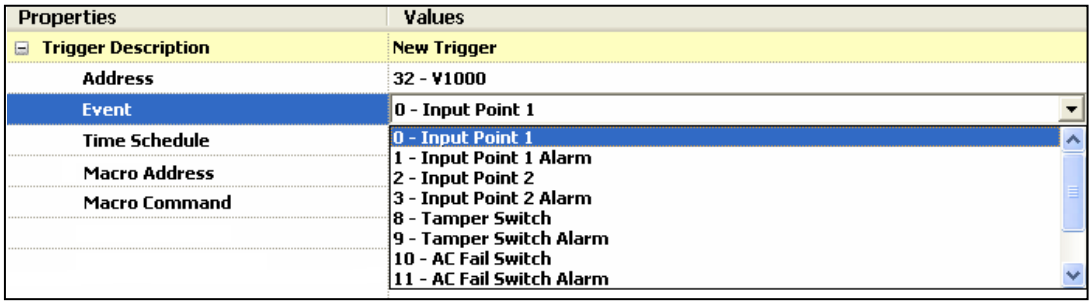
Once the Trigger Address has been defined, the Trigger Events will change accordingly. Where applicable, scroll down to see all the Trigger Events.

V1000 Trigger Address and Events

A. Select the Trigger Address

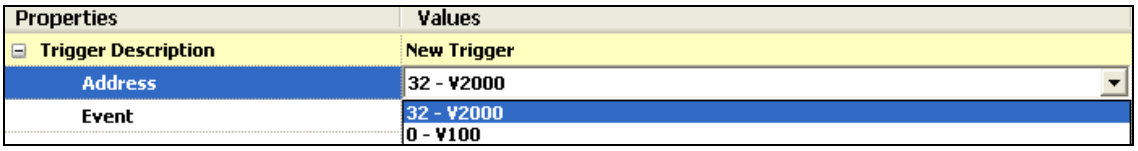


B. Select the Trigger Event

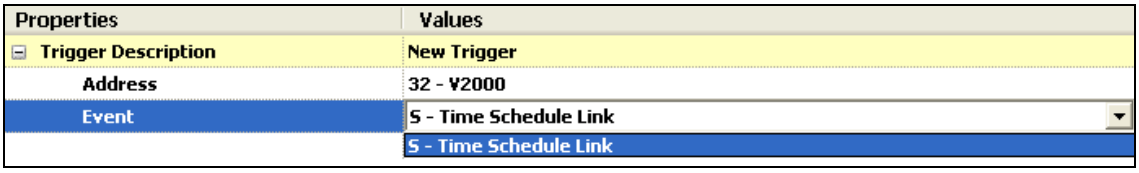


V2000 Trigger Address and Event

A. Select the Trigger Address

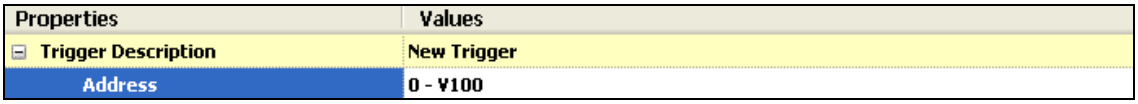


B. Select the Trigger Event

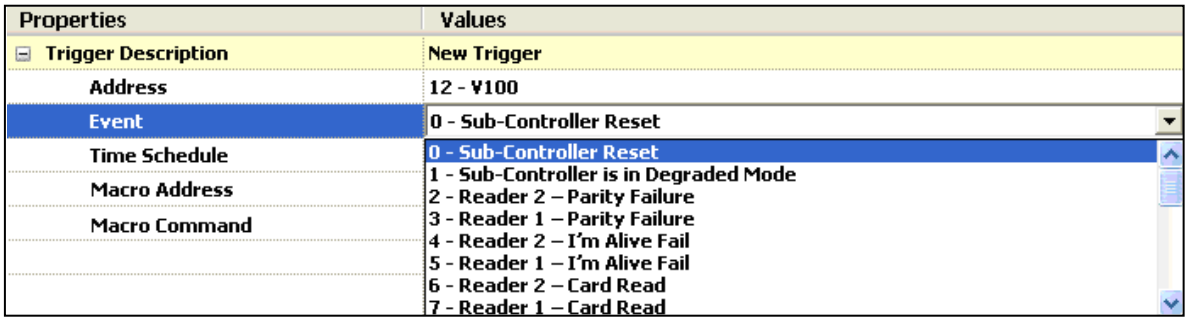


V100 Trigger Address and Events

A. Select the Trigger Address

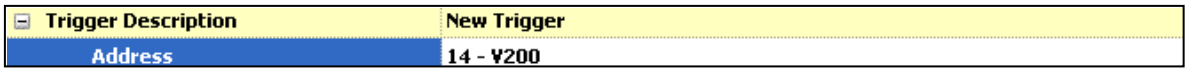


B. Select the Trigger Event

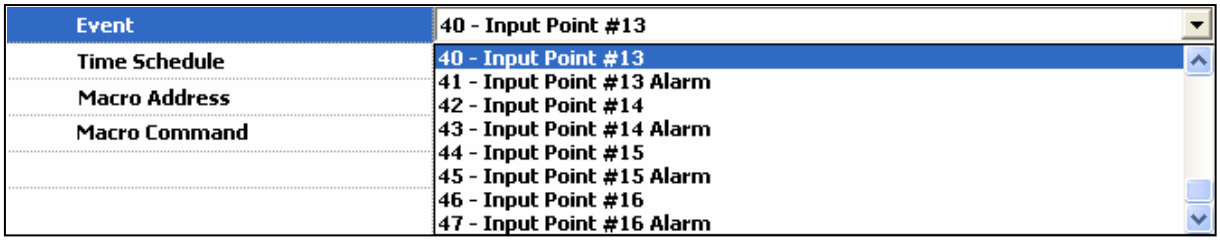

Properties
Values
Trigger Description
New Trigger
Address
12 - V100
Event
0 - Sub-Controller Reset
Time Schedule
Macro Address
Macro Command
0 - Sub-Controller Reset
1 - Sub-Controller is in Degraded Mode
2 - Reader 2 – Parity Failure
3 - Reader 1 – Parity Failure
4 - Reader 2 – I'm Alive Fail
5 - Reader 1 – I'm Alive Fail
6 - Reader 2 – Card Read
7 - Reader 1 – Card Read

V200 Trigger Address and Events

A. Select the Trigger Address

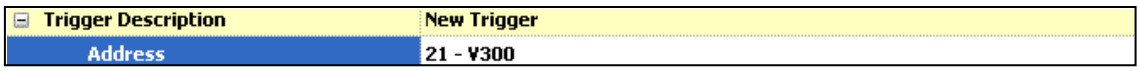


B. Select the Trigger Event

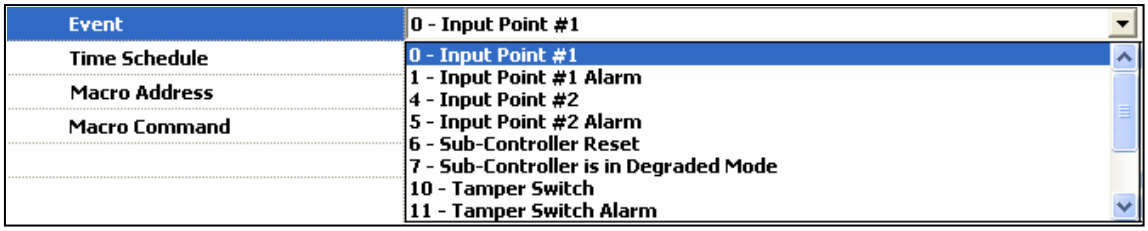

Event
40 - Input Point #13
Time Schedule
Macro Address
Macro Command
40 - Input Point #13
41 - Input Point #13 Alarm
42 - Input Point #14
43 - Input Point #14 Alarm
44 - Input Point #15
45 - Input Point #15 Alarm
46 - Input Point #16
47 - Input Point #16 Alarm

V300 Trigger Address and Events

A. Select the Trigger Address

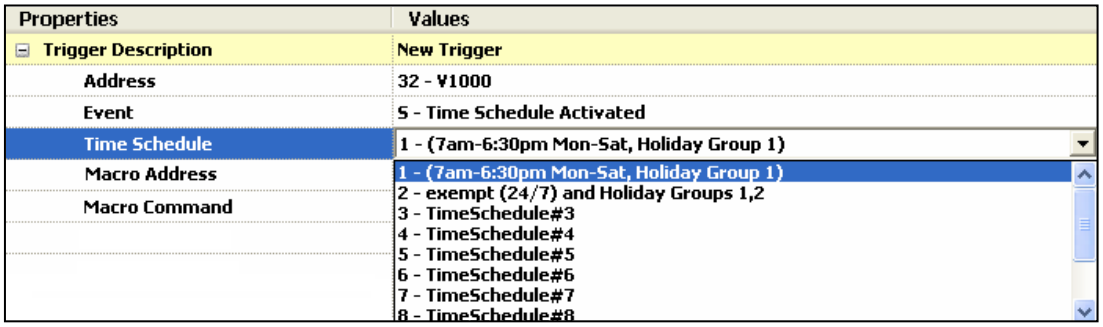


B. Select the Trigger Event


Event
0 - Input Point #1
Time Schedule
Macro Address
Macro Command
0 - Input Point #1
1 - Input Point #1 Alarm
4 - Input Point #2
5 - Input Point #2 Alarm
6 - Sub-Controller Reset
7 - Sub-Controller is in Degraded Mode
10 - Tamper Switch
11 - Tamper Switch Alarm

Time Schedule Association

9. Select the Time Schedule that the Trigger and Macro will follow.



10. Define the address that will execute the macro and the command that will be executed. Choose from the controllers (V1000 or V2000) or the sub-controllers that are installed.

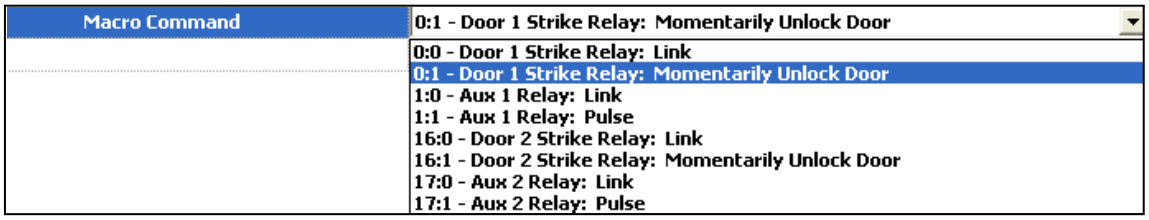
Once the Macro Address has been defined, the Macro Events will change accordingly. Where applicable, scroll down to see all the Macro Events.

Sub-Controller Macro Address and Command

V100

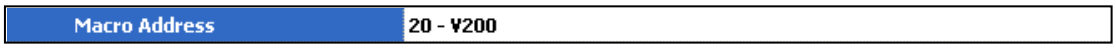
A. Select the Macro Address

B. Select the Macro Command

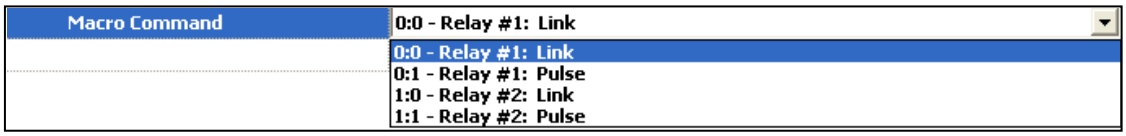

Macro Command
0:1 - Door 1 Strike Relay: Momentarily Unlock Door
0:0 - Door 1 Strike Relay: Link
0:1 - Door 1 Strike Relay: Momentarily Unlock Door
1:0 - Aux 1 Relay: Link
1:1 - Aux 1 Relay: Pulse
16:0 - Door 2 Strike Relay: Link
16:1 - Door 2 Strike Relay: Momentarily Unlock Door
17:0 - Aux 2 Relay: Link
17:1 - Aux 2 Relay: Pulse

V200

A. Select the Macro Address

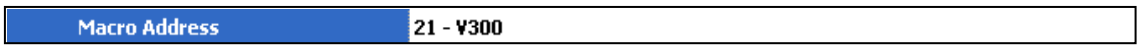


B. Select the Macro Command

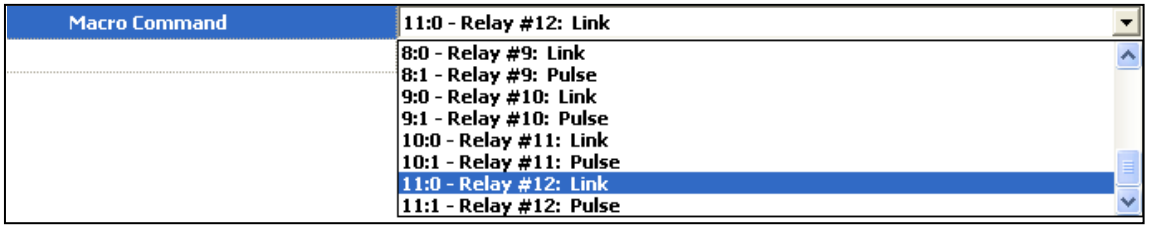


V300

A. Select the Macro Address

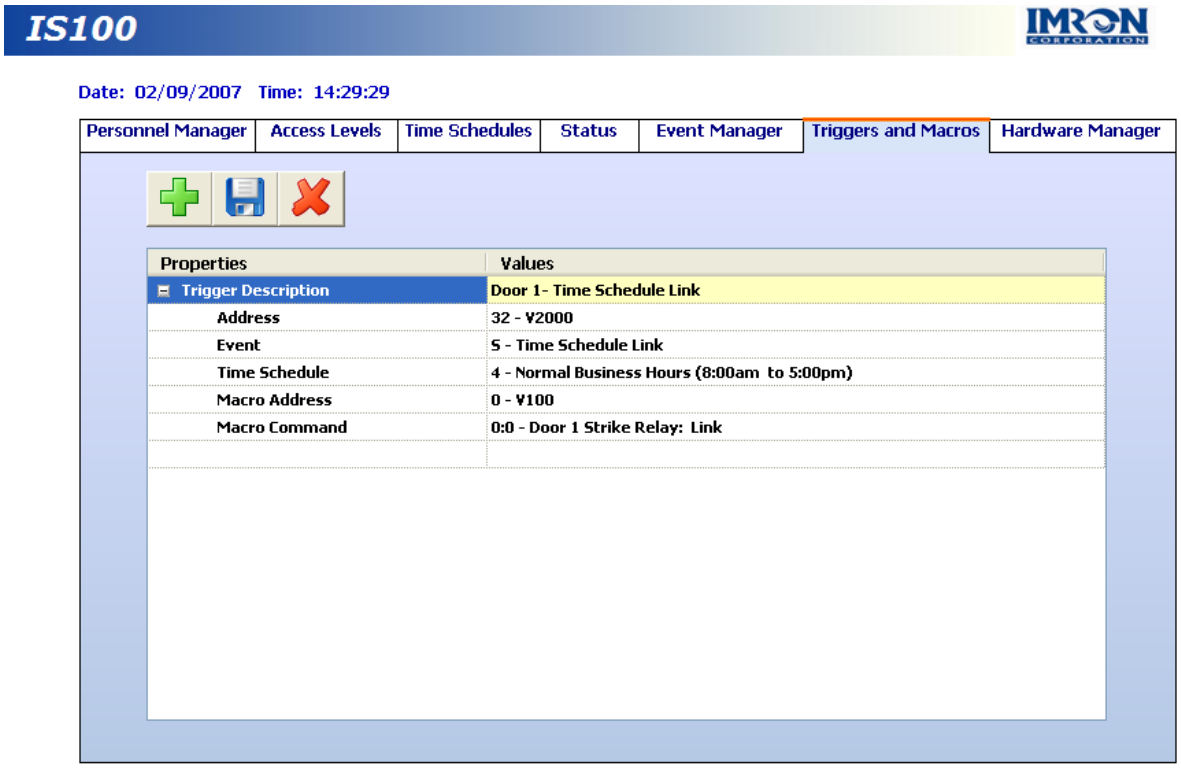


B. Select the Macro Command


Macro Command
11:0 - Relay #12: Link
8:0 - Relay #9: Link
8:1 - Relay #9: Pulse
9:0 - Relay #10: Link
9:1 - Relay #10: Pulse
10:0 - Relay #11: Link
10:1 - Relay #11: Pulse
11:0 - Relay #12: Link
11:1 - Relay #12: Pulse

Triggers and Macros Example

The following Triggers and Macros example illustrates how to associate a Door to a Time Schedule.



Door 1 configuration on the V100 (on-board V2000) consists of a Door Contact, REX, Door Strike, Aux Relay and Reader. For this example, the **Door 1 Strike Relay** will follow the **Normal Business Hours (8:00am to 5:00pm)** Time Schedule. The Door Strike Relay will only be active when the Time Schedule is active.

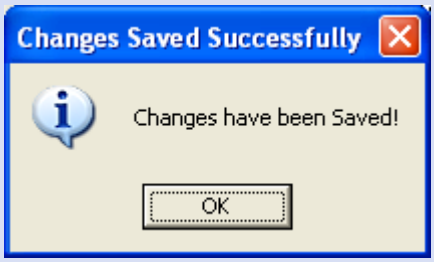
To perform this Trigger and Macro the following parameters are set:

- **Trigger Description**: Door 1 – Time Schedule Link
- **Address**: 32 – V2000
- **Event**: S – Time Schedule Link
- **Time Schedule**: 4 – Normal Business Hours (8:00am to 5:00pm)
- **Macro Address**: 0 - V100
- **Macro Command**: 0:0 – Door 1 Strike Relay: Link

The save reminder will appear when any change is made.

When multiple changes are needed, simply make all the changes, click **when complete.**

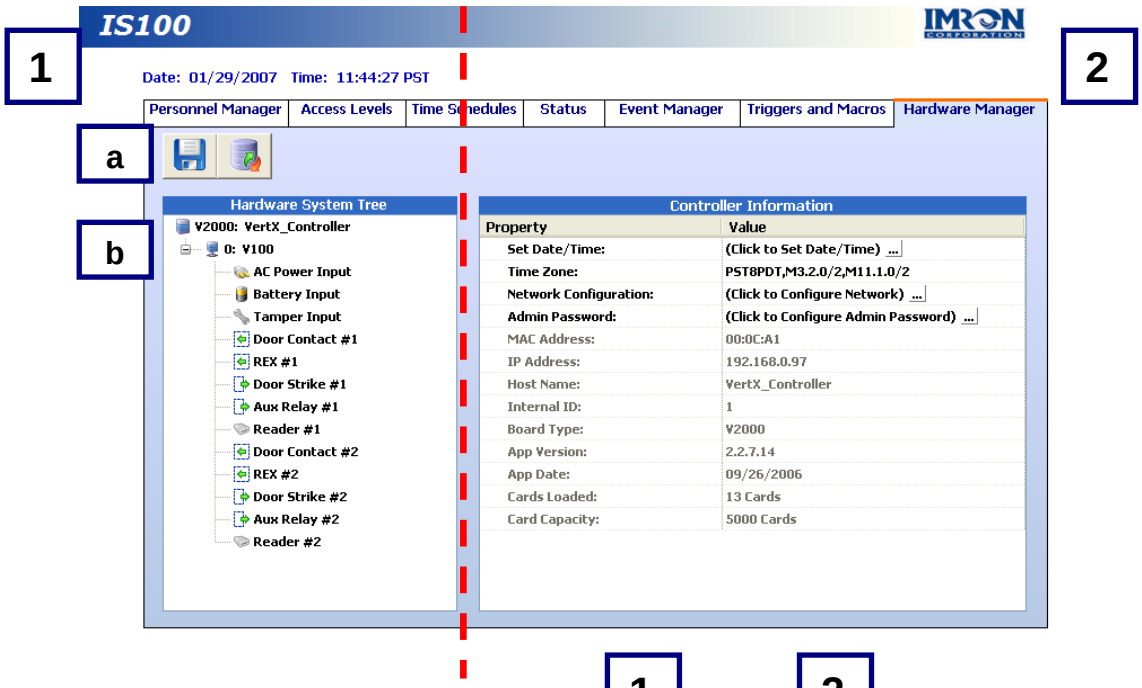
A 'Changes Saved Successfully' dialog box will appear. Click OK.



! Any changes saved in Triggers and Macros take affect after one (1) minute.

Hardware Manager

The **Hardware Manager** is used for initialization and configuration of all hardware and devices on the system. Define properties for inputs, relays, and readers. Auto-scan and automatically configure connected sub-controllers. Backup Data or Restore Data to/from a specified file.



Hardware Manager consists of two main parts: Part 1 and Part 2.

Part 1: Toolbar and Hardware System Tree

a. The Hardware Manager Toolbar consists of two buttons: Save and Backup/Restore Data. The functions of these buttons are defined below.

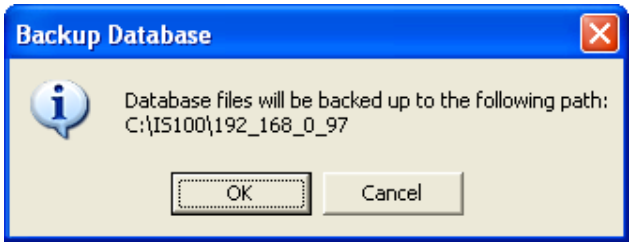
Saves any modifications, changes, and edits made in the Hardware Manager.

Backup Data or Restore Data to/from a specified file.

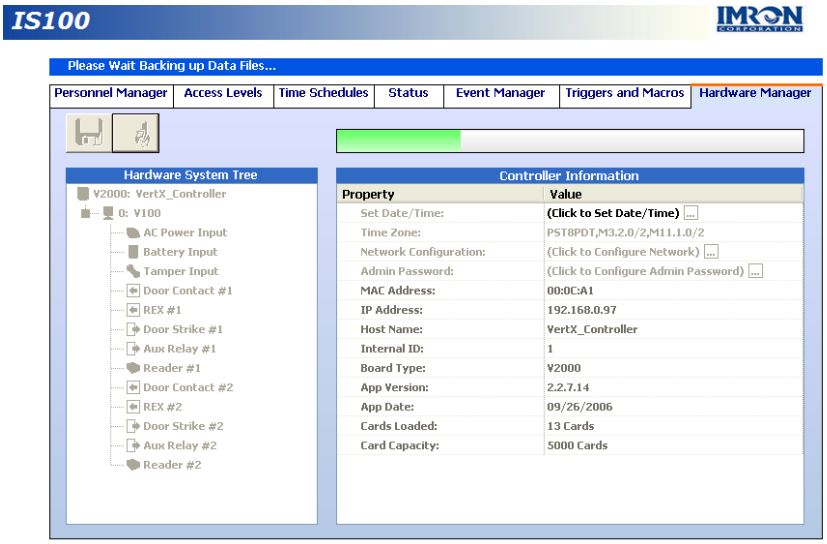
Backup Data

1. To Backup Data, click on the button, and select Backup Data.

2. A **'Backup Database'** dialog box will appear. This will include the exact path of the backup files. Click OK.



3. A progress bar will appear during the backup process.

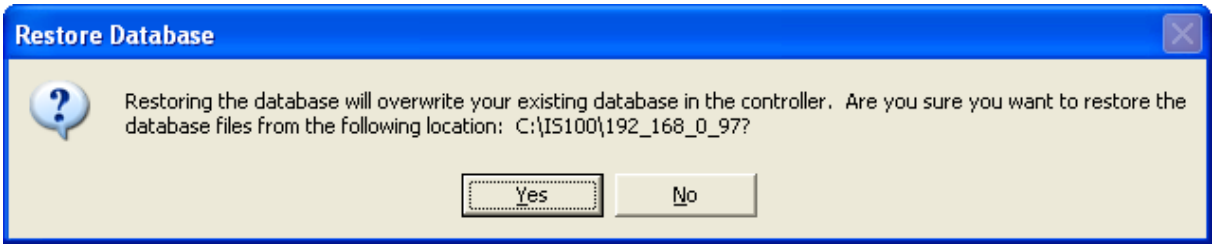


! The Backup will occur on the computer that is being used to communicate with the controller at that time.

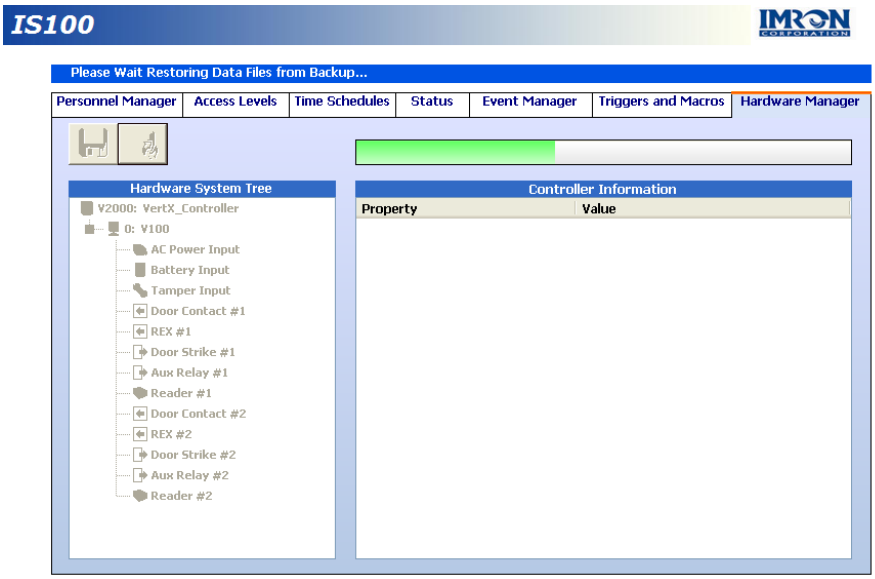
Restore Data

1. To Restore Data, click on the button, and select Restore Data.

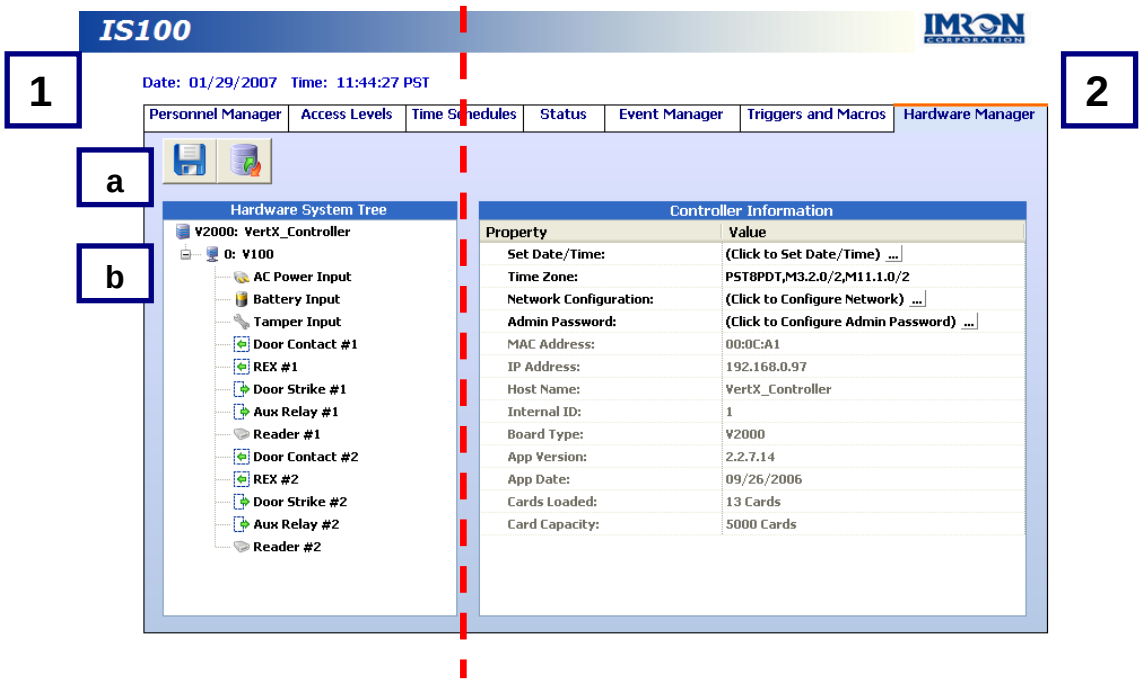
2. A **'Restore Database'** dialog box will appear. To restore the database, the data files will be restored from the computer and the path that the files were originally backed up to.


Restore Database
Restoring the database will overwrite your existing database in the controller. Are you sure you want to restore the database files from the following location: C:\IS100\192_168_0_97?
Yes
No

3. A progress bar will appear during the restoring process.



! Exercise caution when performing this function. Restoring database will OVERWRITE the existing database on the controller.



b. The Hardware System Tree displays all the hardware in a hierarchy. The controllers (V1000/V2000) are displayed on top, sub-controllers are next, followed by inputs, outputs/relays, and readers. Click on a specific hardware or device from the Hardware System Tree to display the corresponding properties on the Hardware Information window to the right.

While on the Hardware System Tree window, the cursor changes to , indicating that additional commands are available on a right mouse-click. Additional commands are available for controllers, sub-controllers, control points (door strikes and relays) and readers. Please see the specific hardware or device below for these commands.

Part 2: Hardware (Controller, Sub-Controller, Device) Information

The Hardware Information displays the properties and values for the selected hardware or device from the Hardware System Tree. The Hardware Information displays Controller Information, Sub-Controller Information and Sub-Controller Device Information.

System Set-up

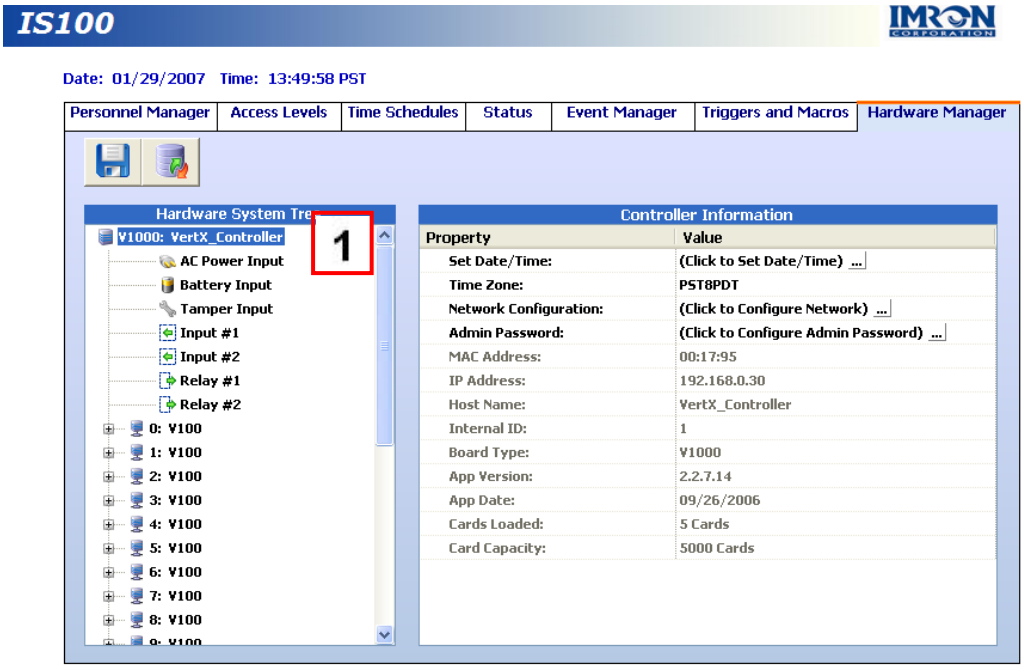
When a new system is installed, go to Hardware Manager. Perform an auto scan with the controller to scan the network for all sub-controllers that are in communication with the controller. Once Auto Scan is complete the system will automatically populate the Hardware System Tree. To modify any of the settings, simply click on the hardware or device from the Hardware System Tree to display corresponding properties and values in the Hardware Information window.

THIS SECTION COVERS HARDWARE INFORMATION DEFINITIONS FOR ALL HARDWARE AND DEVICES.

Controller Properties

Properties for both controllers, V1000 and V2000, are displayed on the Controller Information window when the controller is selected from the Hardware System Tree.

V1000



1. To view and set properties, click on the controller from the Hardware System Tree to display controller dependent properties under the Controller Information.

Controller Properties that can be modified:

- Set Date/Time
- Time Zone
- Network Configuration
- Admin Password

Please see the IS100 Quick Set-Up Guide for more information.

Controller Properties that cannot be modified:

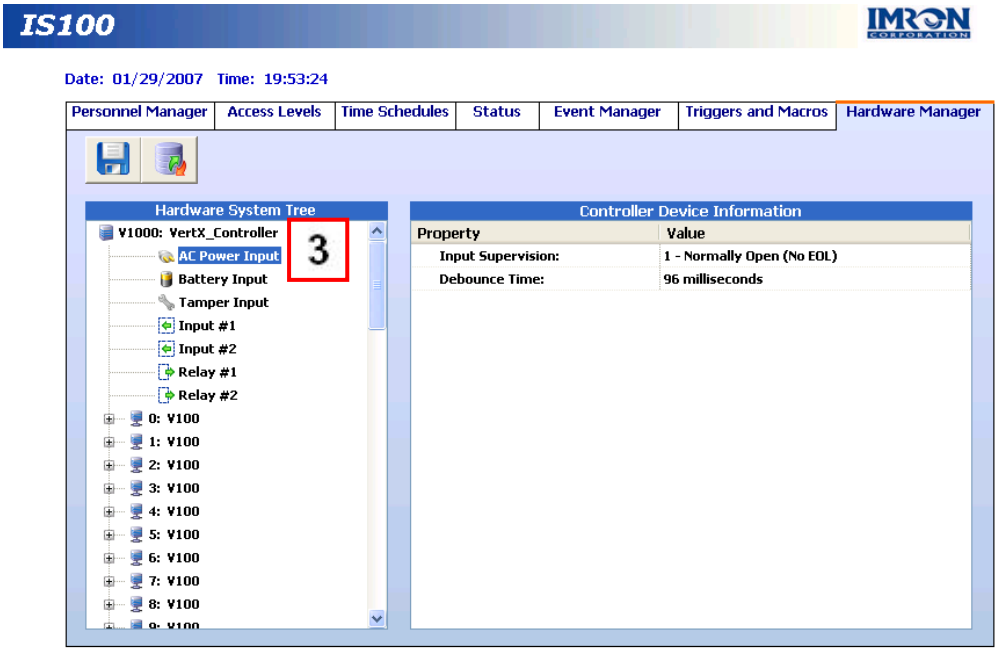
- MAC Address
- IP Address
- Host Name
- Internal ID
- Board Type
- App version
- App Date
- Cards Loaded
- Card Capacity

2. The cursor indicates that additional commands are available on a right mouse-click. Click on the controller, right mouse-click to display two commands: **Autoscan for Sub-controllers** and **Reset Controller**.

- **Autoscan for Sub-controllers -** Auto scans the network for all sub-controllers that are in communication with the controller and populates and configures the hardware automatically.

- **Reset Controller** - Resets all of the tasks on the controller.

! The Reset Controller command should only be used for troubleshooting.

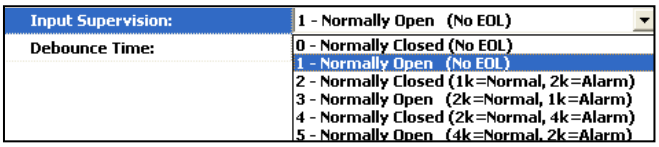


3. The following **Inputs** are present on the controller:

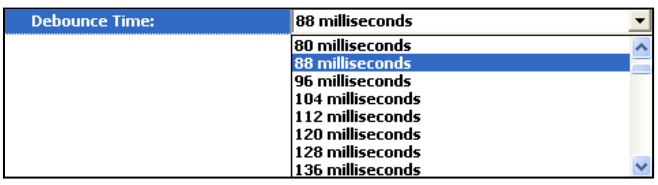
- AC Power Input
- Battery Input
- Tamper Input
- Input #1
- Input #2

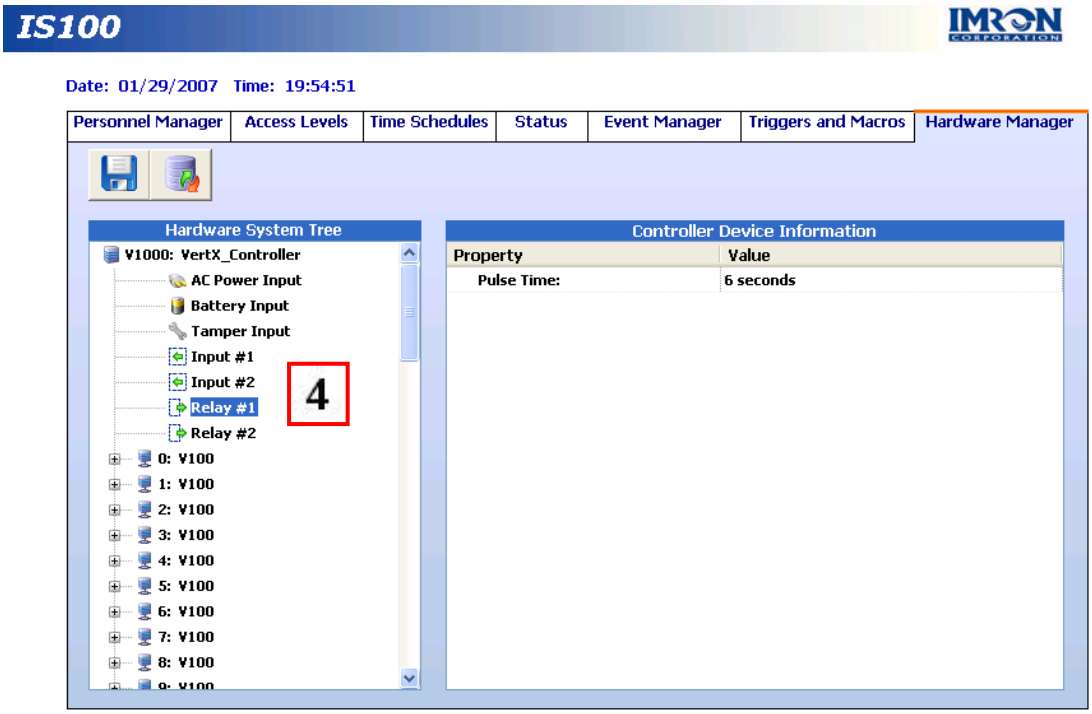
These inputs have two properties that can be modified:

Input Supervision - Determines if the input will be wired as normally open, normally closed, with or without end-of-line (EOL) resistors. When inputs are wired with resistors, select the appropriate values, i.e. 1k = Normal, 2k = Alarm.


Input Supervision:
1 - Normally Open (No EOL)
Debounce Time:
0 - Normally Closed (No EOL)
1 - Normally Open (No EOL)
2 - Normally Closed (1k=Normal, 2k=Alarm)
3 - Normally Open (2k=Normal, 1k=Alarm)
4 - Normally Closed (2k=Normal, 4k=Alarm)
5 - Normally Open (4k=Normal, 2k=Alarm)

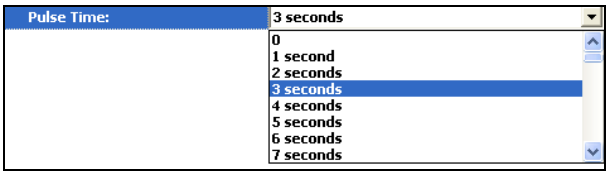
Debounce Time - Sensitivity setting for inputs that ranges from 0-2040 milliseconds. The debounce setting requires the system to receive this number of consecutive readings without deviation before the system reports a change of state or an alarm.





4. Modify the **Relay** property:

- **Pulse Time:** The amount of time the relay stays active. Time ranges between 0-512 seconds.



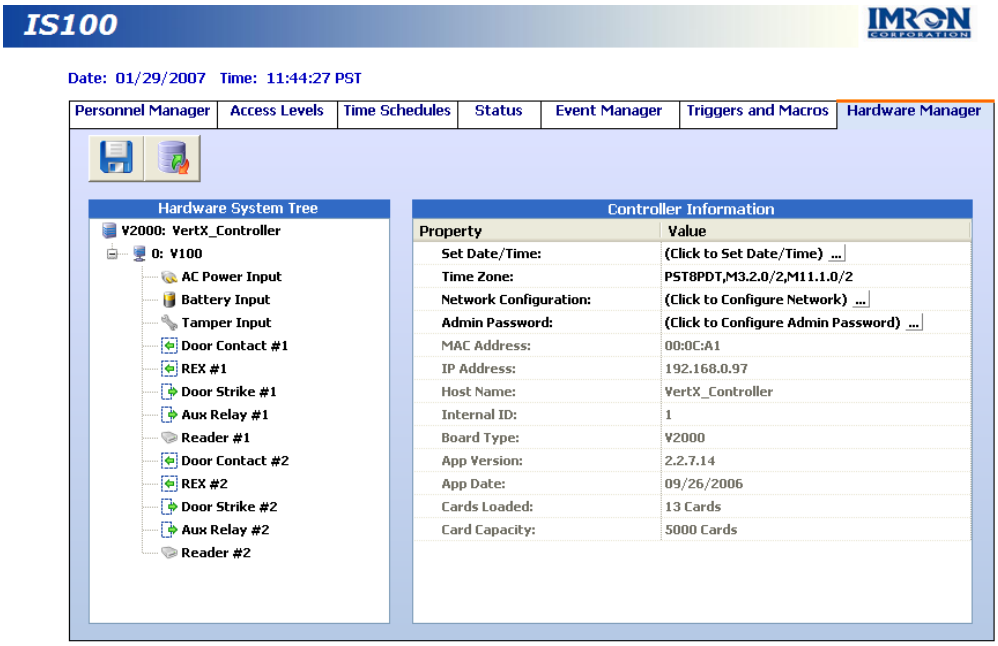
- The cursor indicates that additional commands are available on a right mouse-click. Click on the Relay and right mouse-click. The following commands appear:

  - o **Activate Relay**
  - o **Deactivate Relay**
  - o **Pulse Relay**

  Click on a command to perform the function.

V2000

The V2000 has the same properties displayed in the Controller Information window as described for the V1000 above. The three inputs: AC Power Input, Battery Input, Tamper Input are shown below the on-board V100.



1. To view and set properties, click on the controller from the Hardware System Tree to display controller dependent properties under the Controller Information.

Controller Properties that can be modified:

- Set Date/Time
- Time Zone
- Network Configuration
- Admin Password

Please see the IS100 Quick Set-Up Guide for more information.

Controller Properties that cannot be modified:

- MAC Address
- IP Address
- Host Name
- Internal ID
- Board Type
- App version
- App Date
- Cards Loaded
- Card Capacity

2. The cursor indicates that additional commands are available on a right mouse-click. Click on the controller, right mouse-click to display two commands: **Autoscan for Sub-controllers** and **Reset Controller**.

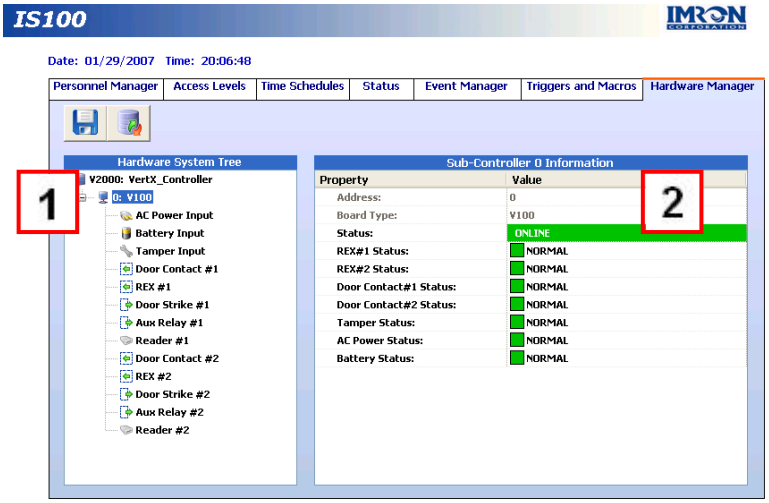
- **Autoscan for Sub-controllers -** For the V2000 controller, the auto scan will populate and configure the on-board V100 sub-controller.

- **Reset Controller** - Resets all of the tasks on the controller.

! The Reset Controller command should only be used for troubleshooting.

Sub-Controller Properties-V100

Click on the sub-controller (V100) to display real-time status of both the sub-controller and all on-board inputs. Click on the individual inputs/relays/readers to display specific properties.



1. On the hardware tree, click on the sub-controller, V100.

2. Sub-Controller dependent properties are displayed. These include:

   - **Address**: Address of the board (0)
   - **Board Type**: Type of board (V100)
   - **Status of the sub-controller**:

     When first connecting, the status will be POLLING.

     POLLING

     Once communication is established, the status will change to ONLINE.

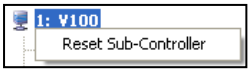
     ONLINE

   - **Status of the inputs REX, Door Contacts, Tamper, AC Power, and Battery**:

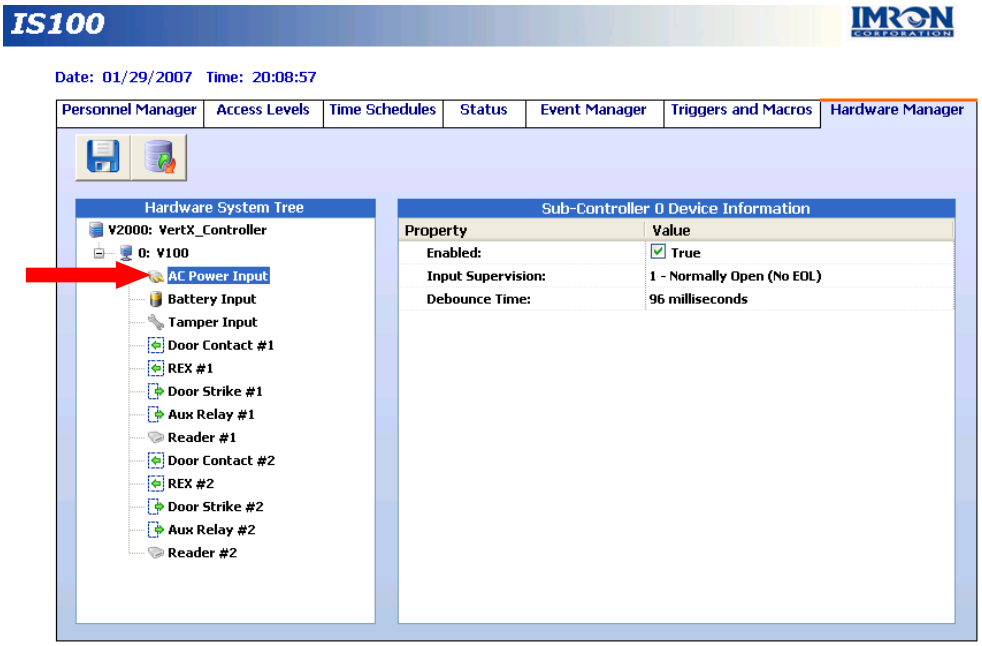
     Normal
     NORMAL

     Active
     ACTIVE

3. The cursor indicates that additional commands are available on a right mouse-click. Click on the sub-controller and right mouse-click. A **'Reset Sub-Controller'** command appears. Click on this command if a reset is required.

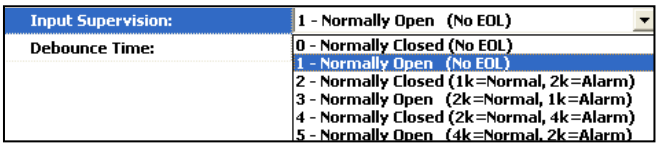


AC Power/Battery/Tamper Input Properties

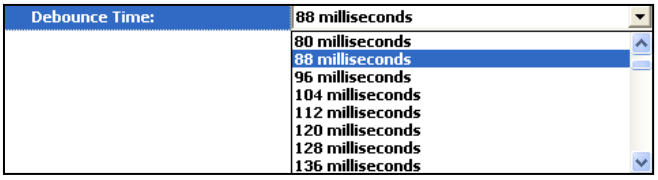


- **Enabled** -True or False. If True, device will report to the system and be monitored.

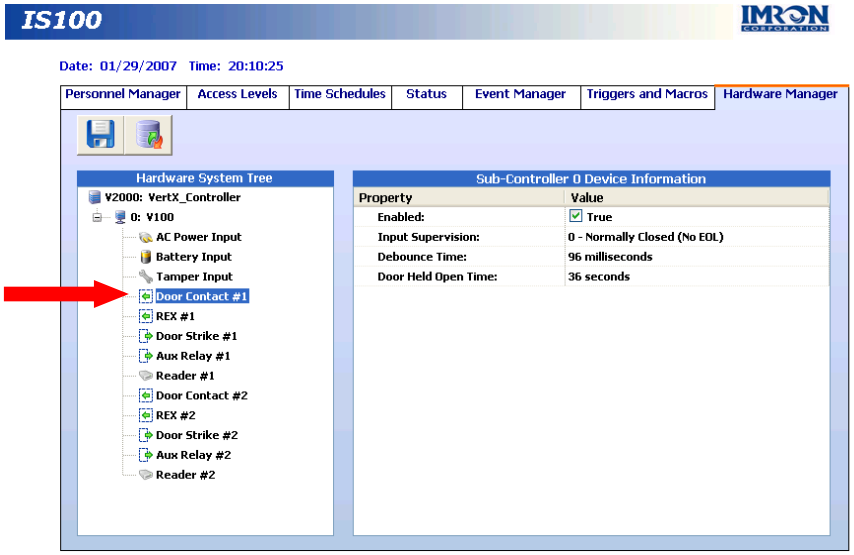
- **Input Supervision** - Determines if the input will be wired as normally open, normally closed, with or without end-of-line (EOL) resistors. When inputs are wired with resistors, select the appropriate values, i.e. 1k = Normal, 2k = Alarm.


Input Supervision:
1 - Normally Open (No EOL)
Debounce Time:
0 - Normally Closed (No EOL)
1 - Normally Open (No EOL)
2 - Normally Closed (1k=Normal, 2k=Alarm)
3 - Normally Open (2k=Normal, 1k=Alarm)
4 - Normally Closed (2k=Normal, 4k=Alarm)
5 - Normally Open (4k=Normal, 2k=Alarm)

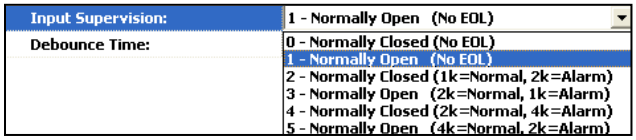
- **Debounce Time** - Sensitivity setting for inputs that ranges from 0-2040 milliseconds. The debounce setting requires the system to receive this number of consecutive readings without deviation before the system reports a change of state or an alarm.



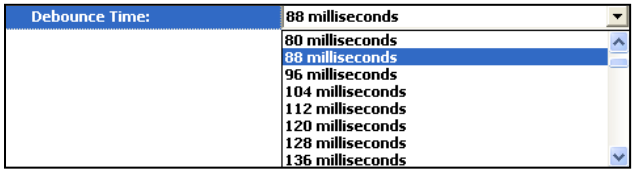
Door Contact Properties



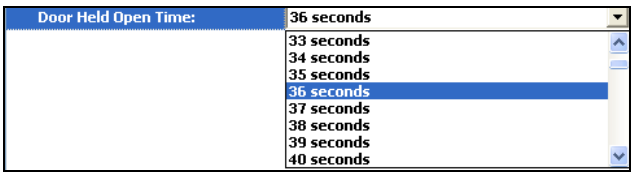
- **Enabled** -True or False
- **Input Supervision** - Determines if the input will be wired as normally open, normally closed, with or without end-of-line (EOL) resistors. When inputs are wired with resistors, select the appropriate values, i.e. 1k = Normal, 2k = Alarm.


Input Supervision:
1 - Normally Open (No EOL)
Debounce Time:
0 - Normally Closed (No EOL)
1 - Normally Open (No EOL)
2 - Normally Closed (1k=Normal, 2k=Alarm)
3 - Normally Open (2k=Normal, 1k=Alarm)
4 - Normally Closed (2k=Normal, 4k=Alarm)
5 - Normally Open (4k=Normal, 2k=Alarm)

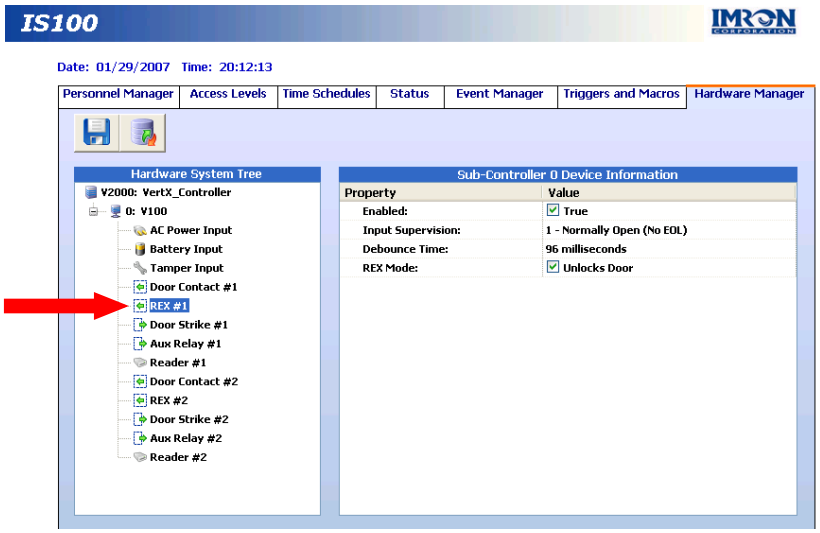
- **Debounce Time** - Sensitivity setting for inputs that ranges from 0-2040 milliseconds. The debounce setting requires the system to receive this number of consecutive readings without deviation before the system reports a change of state or an alarm.



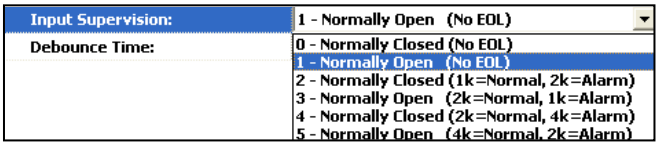
- **Door Held Open Time** – The time a door can remain open before being considered Door Held Open. The time ranges from 0-512 seconds.



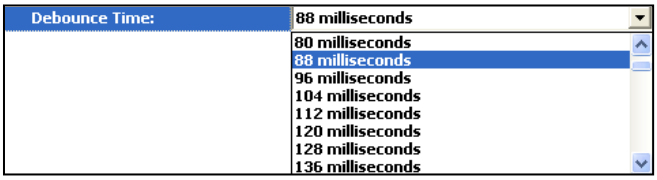
Request to Exit Properties



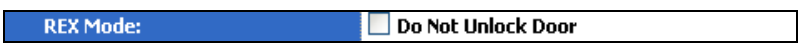
- **Enabled** -True or False. If True, device will report to the system and be monitored.
- **Input Supervision** - Determines if the input will be wired as normally open, normally closed, with or without end-of-line (EOL) resistors. When inputs are wired with resistors, select the appropriate values, i.e. 1k = Normal, 2k = Alarm.


Input Supervision:
1 - Normally Open (No EOL)
Debounce Time:
0 - Normally Closed (No EOL)
1 - Normally Open (No EOL)
2 - Normally Closed (1k=Normal, 2k=Alarm)
3 - Normally Open (2k=Normal, 1k=Alarm)
4 - Normally Closed (2k=Normal, 4k=Alarm)
5 - Normally Open (4k=Normal, 2k=Alarm)

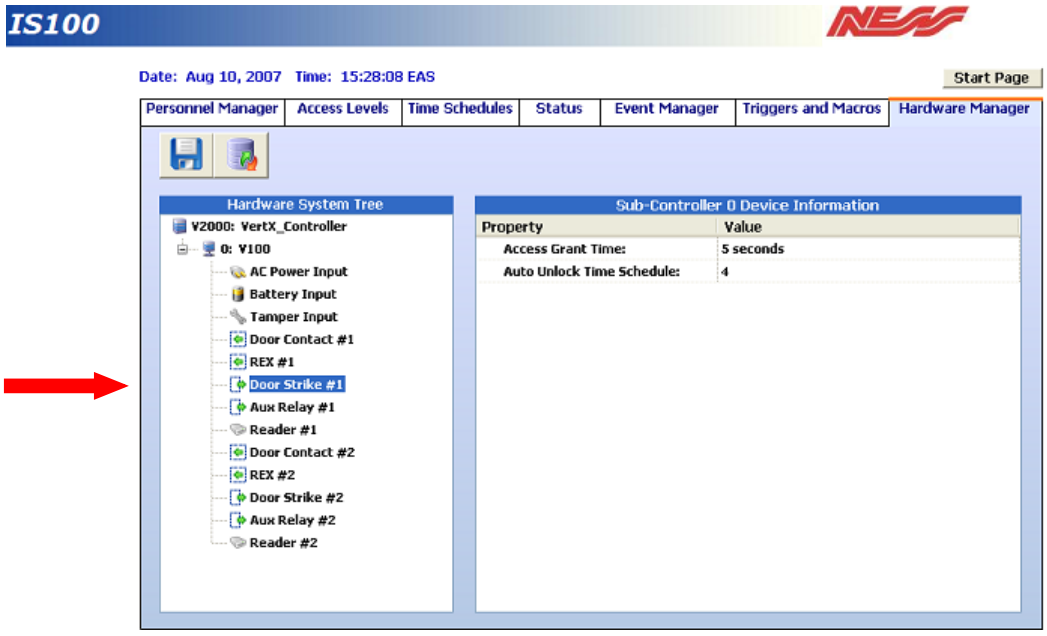
- **Debounce Time** - Sensitivity setting for inputs that ranges from 0-2040 milliseconds. The debounce setting requires the system to receive this number of consecutive readings without deviation before the system reports a change of state or an alarm.



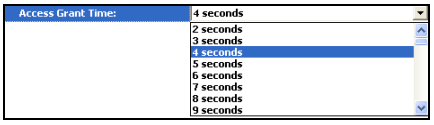
- **REX Mode** – Determines whether to activate a door strike or not to activate a door strike.



Door Strike Properties



- **Access Grant Time:** The amount of time that the door will remain unlocked upon an access granted event. The time range is between 0-512 seconds.

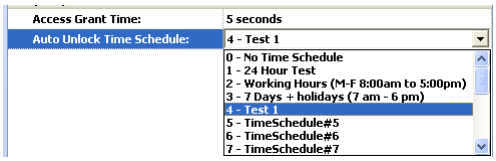


- The cursor indicates that additional commands are available on a right mouse-click. Click on the Door Strike and right mouse-click. The following commands appear:

  - **Unlock Door**
  - **Lock Door**
  - **Momentarily Unlock Door**

Click on a command to perform the function.

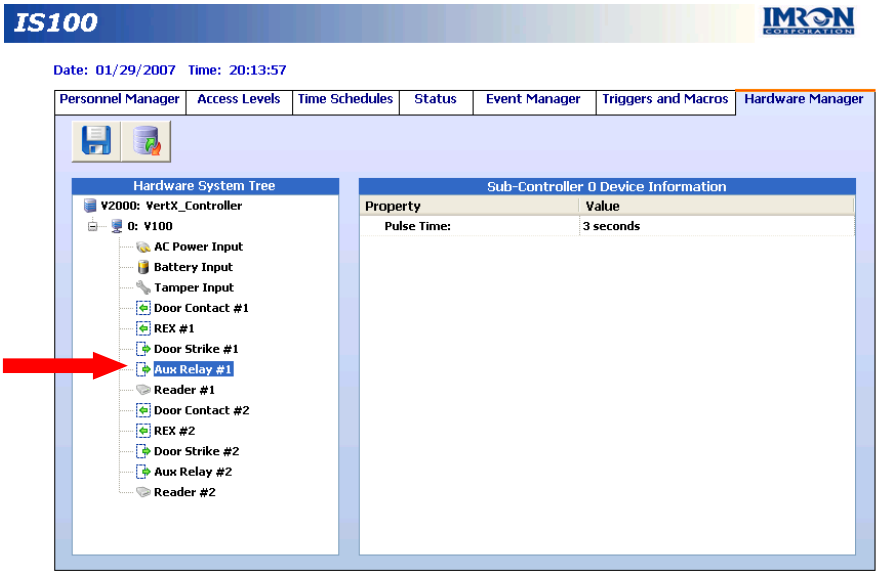
- **Auto Unlock Time Schedule:** If the door is to be automatically unlocked during a programmed time schedule, then select the time Schedule and the door will auto unlock and relock during these times. .


Access Grant Time:
5 seconds
Auto Unlock Time Schedule:
4 - Test 1
0 - No Time Schedule
1 - 24 Hour Test
2 - Working Hours (M-F 8:00am to 5:00pm)
3 - 7 Days + holidays (7 am - 6 pm)
4 - Test 1
5 - TimeSchedule#5
6 - TimeSchedule#6
7 - TimeSchedule#7

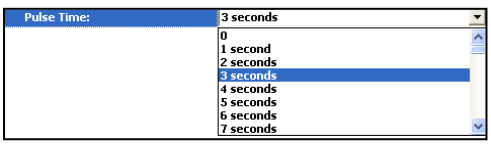
Note 1. When programming this option during a Time Schedule, then the door may not unlock immediately and you may have to wait for the top of the next minute for it to Auto Unlock. Therefore wait for at least 2 minutes when first programming to confirm its operation. Once the time schedule passes to the next day it will occur during the start of the Time Schedule.

Note 2. If the Door is unlocked during the Time Schedule and then it is manual relocked by an operator via the IS100 software it will remain locked and the Time Schedule will be overridden for this day only. If it is then unlocked manually unlocked via the IS100 software it will then relock at the end of the Time Schedule.

Auxiliary Relay Properties



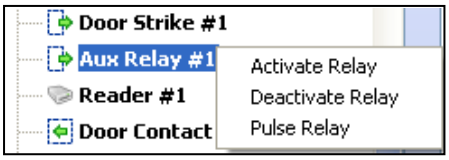
- **Pulse Time:** The amount of time the relay stays active. Time ranges between 0-512 seconds



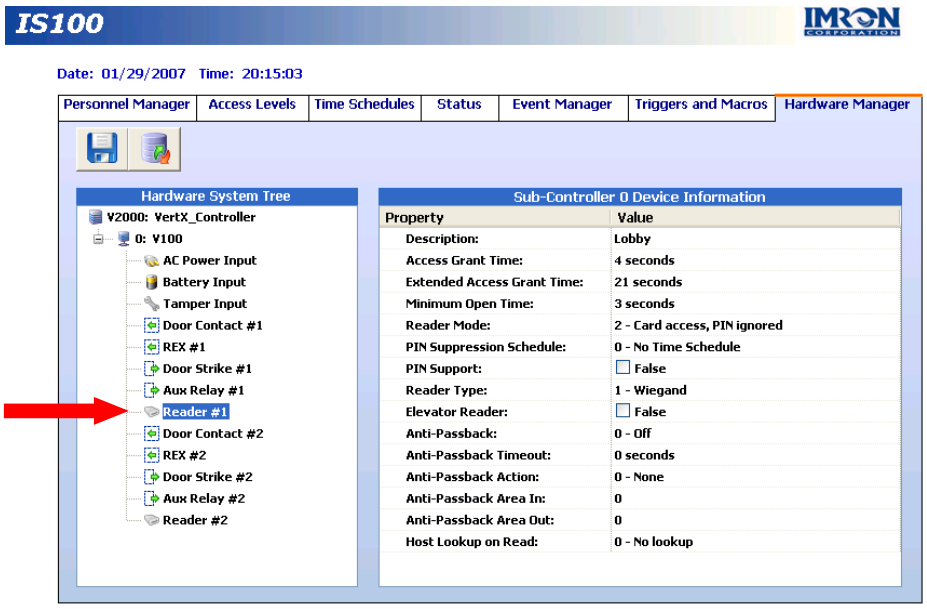
- The cursor indicates that additional commands are available on a right mouse-click. Click on the Aux Relay and right mouse-click. The following commands appear:

  - **Activate Relay**
  - **Deactivate Relay**
  - **Pulse Relay**

  Click on a command to perform the function.



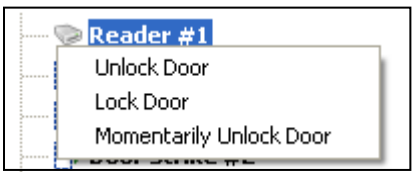
Reader Properties



- **Description:** Type in the reader description/name.
- The cursor indicates that additional commands are available on a right mouse-click. Click on the Reader and right mouse-click. The following commands appear:

  - **Unlock Door**
  - **Lock Door**
  - **Momentarily Unlock Door**

  Click on a command to perform the function.

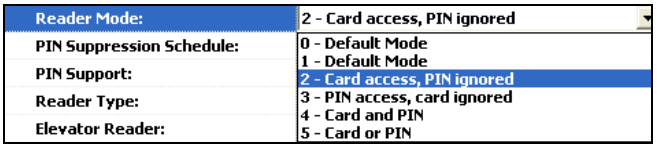


- **Access Grant Time:** The amount of time that the door will remain unlocked upon an access granted event. The time range is between 0-512 seconds.
- **Extended Access Grant Time:** The amount of time that the door will remain unlocked upon an access granted event to a cardholder with extended access grant time. Typically this property is used for ADA settings. The time range is between 0-512 seconds.
- **Minimum Open Time:** The time a door can remain open before being considered Door Held Open. The time range is between 0-512 seconds.

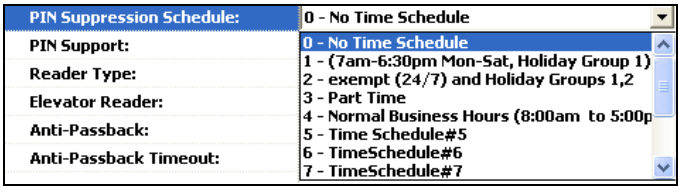
- **Reader Mode:** Possible method by which a user can open a door.

The allowed values have the following interpretations:

0 - RFU
1 - RFU
2 - Users can gain access by presenting a valid card, a PIN is ignored
3 - Users can gain access by keying in a valid pin, a card is ignored
4 - User can gain access be presenting a card and keying in the associated pin
5 - User can gain access by presenting a card or keying in the associated pin.

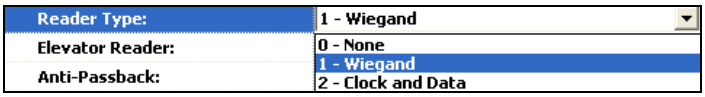


- **PIN Suppression Schedule:** ID number of a PIN suppression schedule. If the reader is a card-and-pin reader, then this schedule determines when this reader becomes in effect a card-only reader. The schedule itself is one of the set defined in the schedules file.



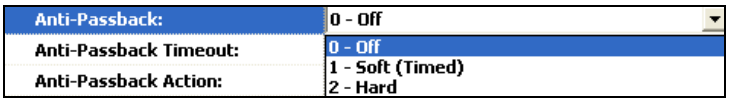
- **PIN Support:** 0- False, 1- True

- **Reader Type:** 0- None, 1- Wiegand, 2- Clock and Data

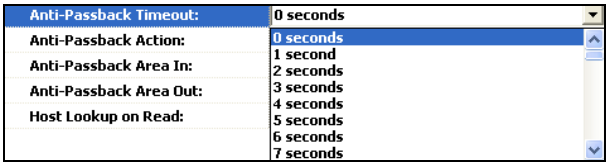


- **Elevator Reader:** 0- False, 1- True

- **Anti-Passback:** Applies anti-passback rules that are either timed (in seconds) to determine the interval before a cardholder can gain entry through the same reader or hard in which anti-passback is implemented throughout a system with entry and exit readers to defined areas within the controlled access area.

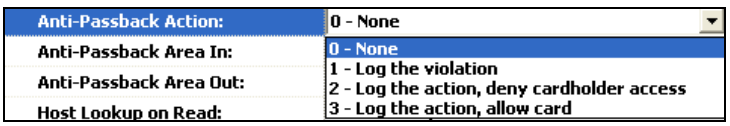


- **Anti-Passback Timeout:** Number of seconds that a timed anti-passback is in effect (the current time – last card read time) for a user must be greater than the timeout for the anti-passback period to be over.

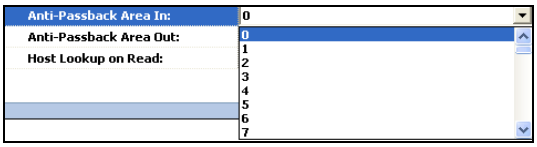


- **Anti-Passback Action:** Action to be taken if an anti-passback or area violation is detected.

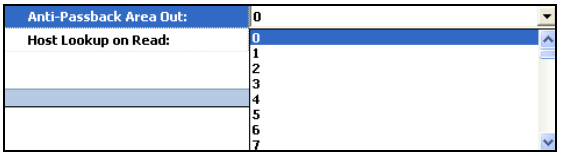
0 – None
1 – Log the Violation.
2 – Log the action and deny the cardholder access.
3 – Log the action, allow the cardholder access, but do not allow him to exit the area.


Anti-Passback Action:
0 - None
Anti-Passback Area In:
Anti-Passback Area Out:
Host Lookup on Read:
0 - None
1 - Log the violation
2 - Log the action, deny cardholder access
3 - Log the action, allow card

- **Anti-Passback Area In:** Area that the door leads into (0-255).

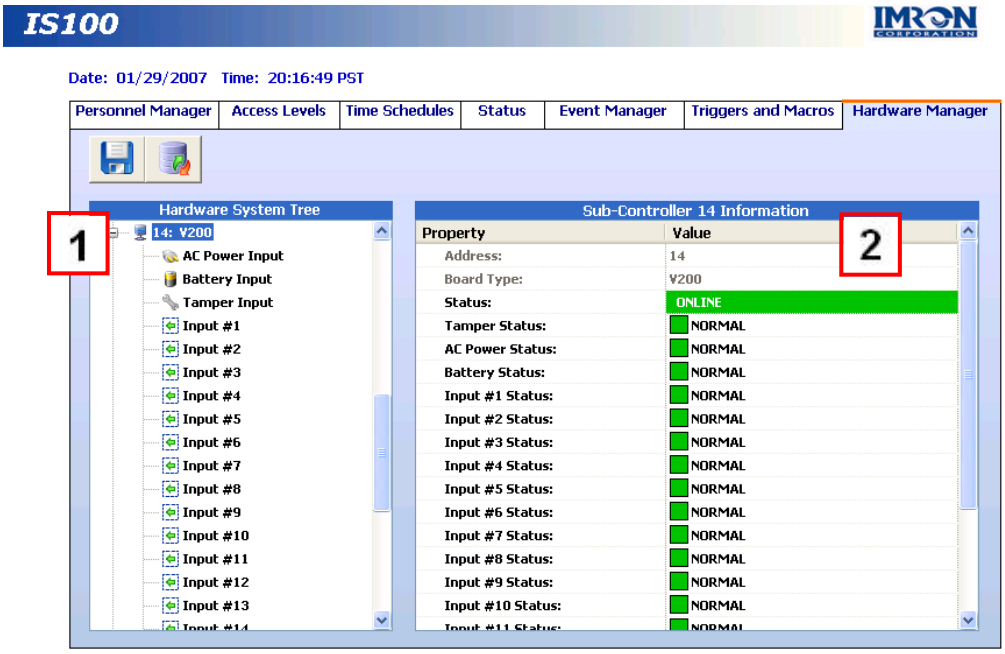


- **Anti-Passback Area Out:** Area that the door leads from (0-255).



Sub-Controller Properties-V200

Click on the sub-controller (V200) to display real-time status of both the sub-controller and all on-board inputs. Click on the individual inputs and relays to display specific properties. V200 has 16 inputs and 2 auxiliary relays. The V200 also has inputs for AC Power, Battery, and Tamper.



1. On the hardware tree, click on the sub-controller, V200.
2. Sub-Controller dependent properties are displayed. These include:
   - **Address**: Address of the board (20)
   - **Board Type**: Type of board (V200)
   - **Status of the sub-controller**:

     When first connecting, the status will be POLLING.

POLLING

Once communication is established, the status will change to ONLINE.

ONLINE

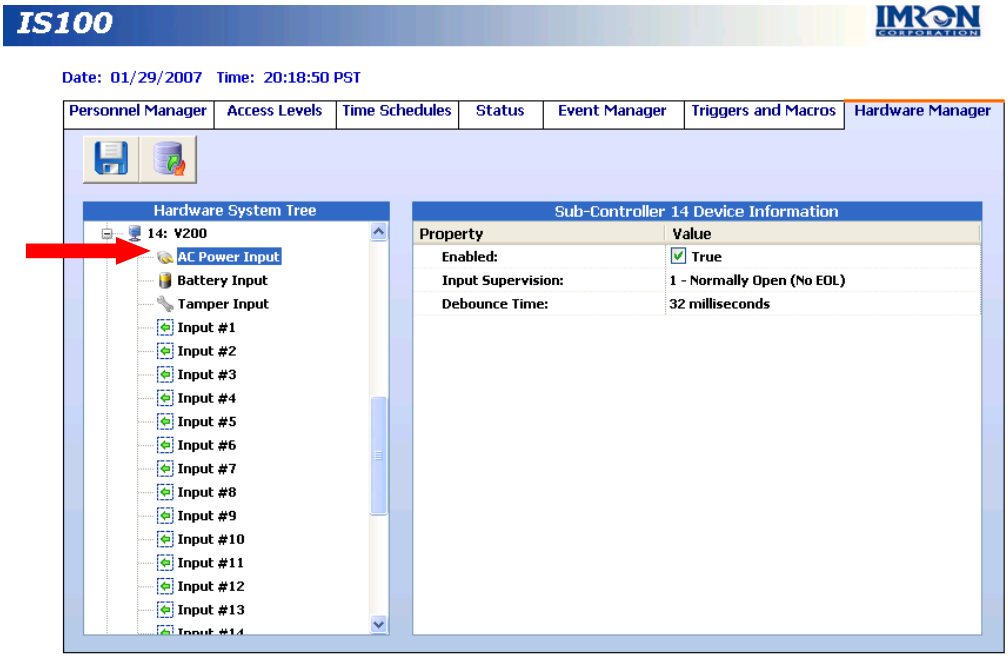
- **Status of inputs: Tamper, AC Power, Battery and the 16 inputs**

Normal
NORMAL

Active
ACTIVE

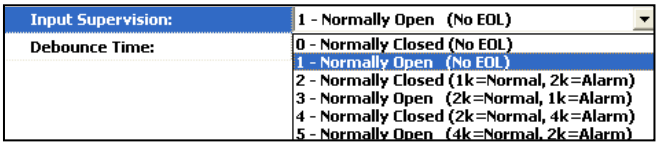
Input Properties (AC Power/Battery/Tamper/Inputs #1-16)

All the inputs have the following properties:

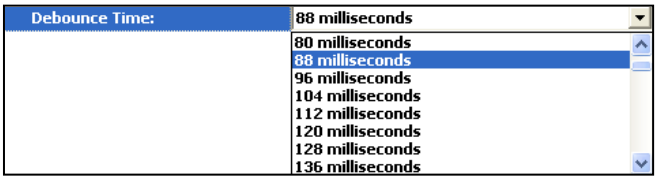


- **Enabled** -True or False. If True, device will report to the system and be monitored.

- **Input Supervision** - Determines if the input will be wired as normally open, normally closed, with or without end-of-line (EOL) resistors. When inputs are wired with resistors, select the appropriate values, i.e. 1k = Normal, 2k = Alarm.

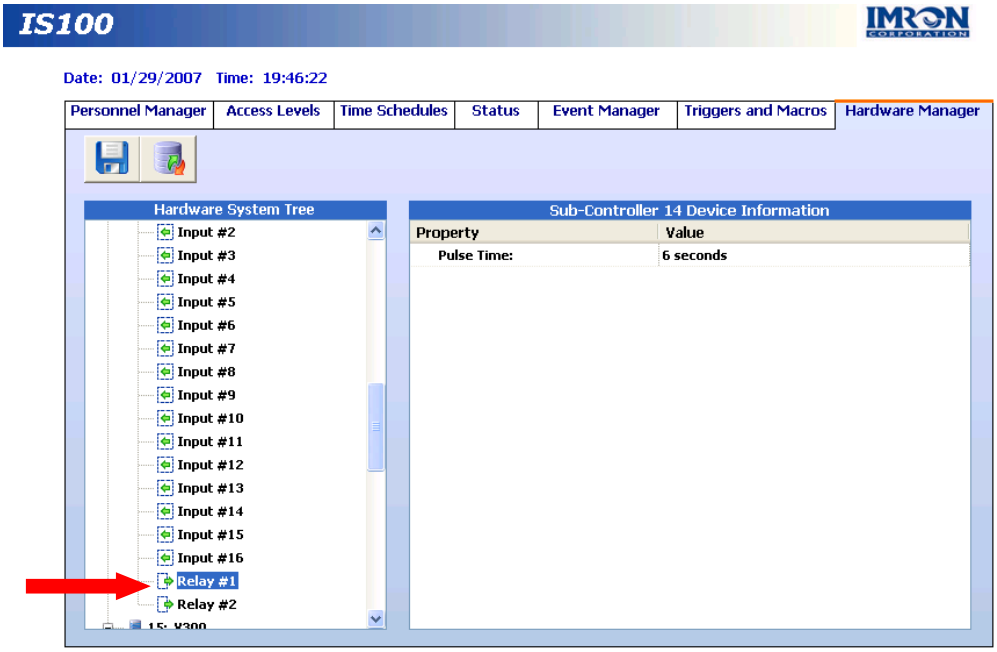

Input Supervision:
1 - Normally Open (No EOL)
Debounce Time:
0 - Normally Closed (No EOL)
1 - Normally Open (No EOL)
2 - Normally Closed (1k=Normal, 2k=Alarm)
3 - Normally Open (2k=Normal, 1k=Alarm)
4 - Normally Closed (2k=Normal, 4k=Alarm)
5 - Normally Open (4k=Normal, 2k=Alarm)

- **Debounce Time** - Sensitivity setting for inputs that ranges from 0-2040 milliseconds. The debounce setting requires the system to receive this number of consecutive readings without deviation before the system reports a change of state or an alarm.

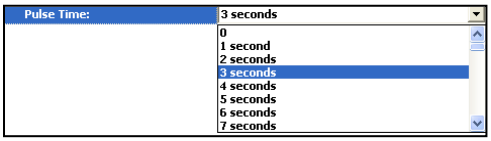


Relay Properties

Both relays (# 1and # 2) have the following property:



- **Pulse Time:** The amount of time the relay stays active. Time ranges between 0-512 seconds.



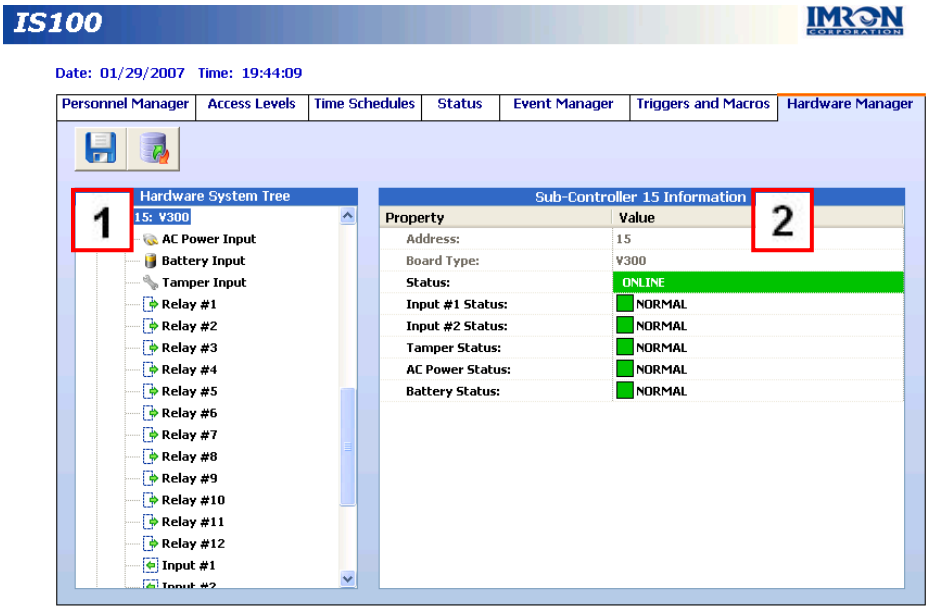
- The cursor indicates that additional commands are available on a right mouse-click. Click on the Relay and right mouse-click. The following commands appear:

  - **Activate Relay**
  - **Deactivate Relay**
  - **Pulse Relay**

  Click on a command to perform the function.

Sub-Controller Properties-V300

Click on the sub-controller (V300) to display real-time status of both the sub-controller and all on-board outputs/relays and inputs. Click on the individual relays and inputs to display specific properties. V300 has 12 outputs/relays and 2 auxiliary inputs. The V300 also has inputs for AC Power, Battery and Tamper.



1. On the hardware tree, click on the sub-controller, V300.

2. Sub-Controller dependent properties are displayed. These include:

   - **Address**: Address of the board (21)
   - **Board Type**: Type of board (V300)
   - **Status of the sub-controller**:

     When first connecting, the status will be POLLING.

POLLING

Once communication is established, the status will change to ONLINE.

ONLINE

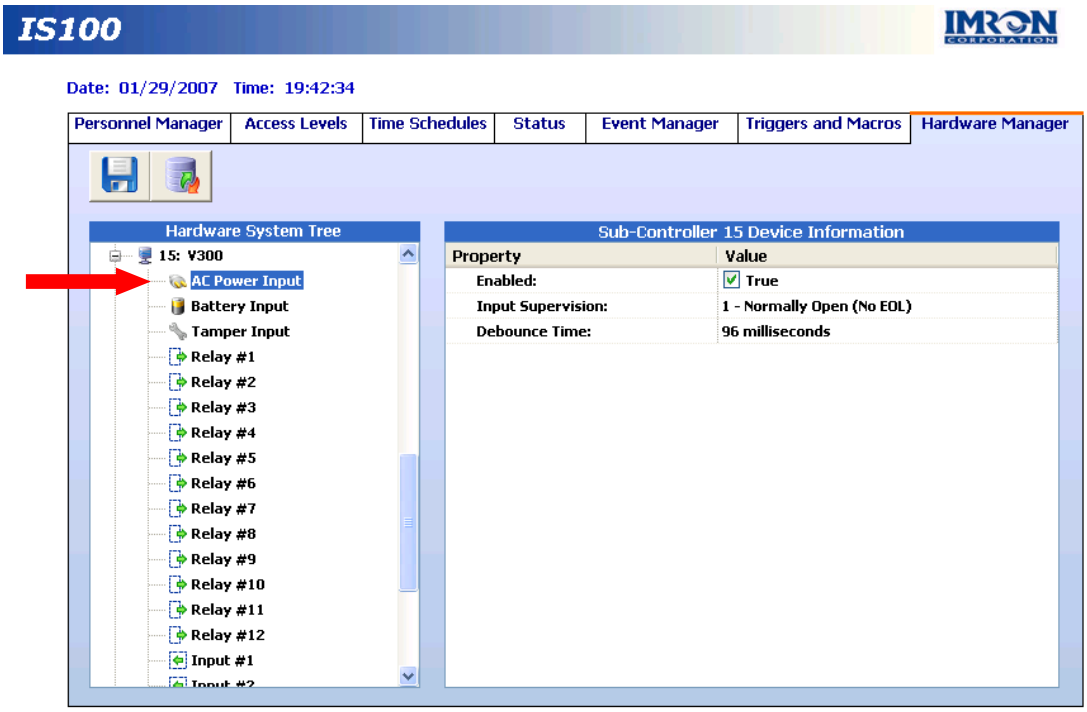
- **Status of inputs: Tamper, AC Power, Battery and the 2 auxiliary inputs**

Normal
NORMAL

Active
ACTIVE

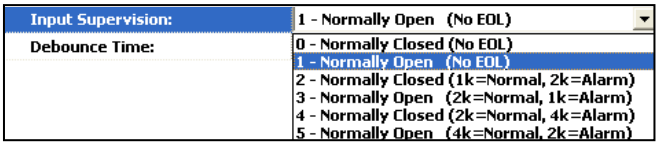
Input Properties (AC Power/Battery/Tamper/Inputs #1 and 2)

All the inputs have the following properties:

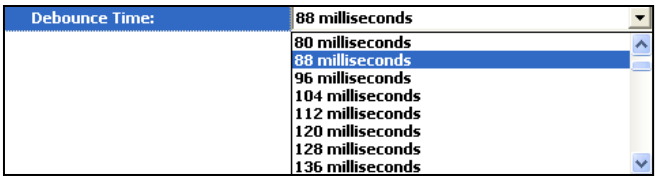


- **Enabled** -True or False. If True, device will report to the system and be monitored.

- **Input Supervision** - Determines if the input will be wired as normally open, normally closed, with or without end-of-line (EOL) resistors. When inputs are wired with resistors, select the appropriate values, i.e. 1k = Normal, 2k = Alarm.

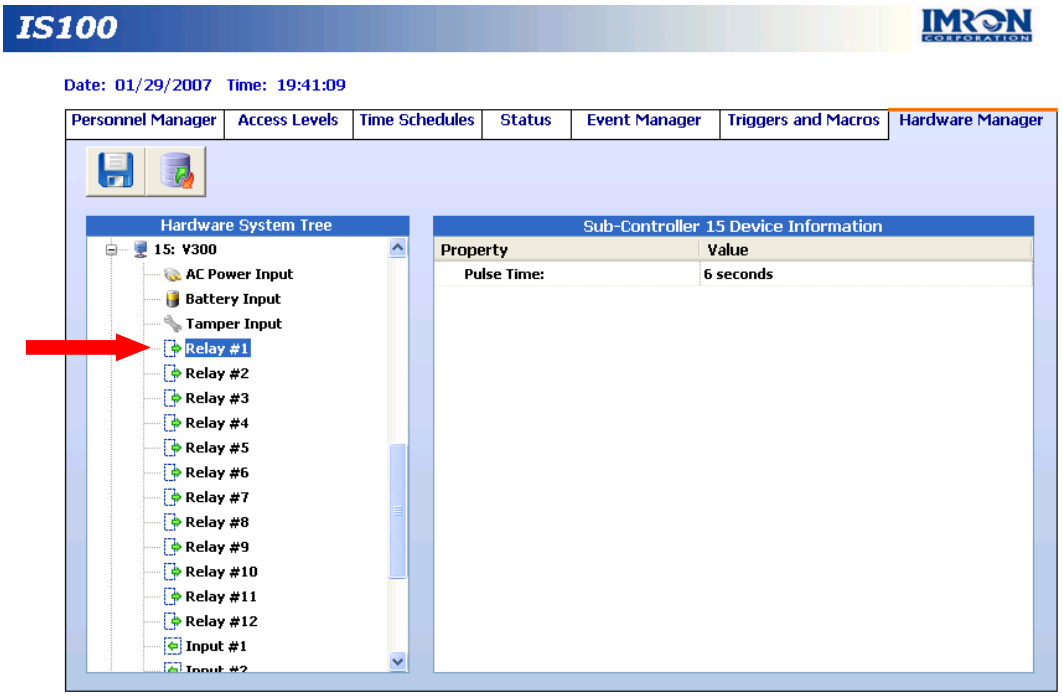

Input Supervision:
1 - Normally Open (No EOL)
Debounce Time:
0 - Normally Closed (No EOL)
1 - Normally Open (No EOL)
2 - Normally Closed (1k=Normal, 2k=Alarm)
3 - Normally Open (2k=Normal, 1k=Alarm)
4 - Normally Closed (2k=Normal, 4k=Alarm)
5 - Normally Open (4k=Normal, 2k=Alarm)

- **Debounce Time** - Sensitivity setting for inputs that ranges from 0-2040 milliseconds. The debounce setting requires the system to receive this number of consecutive readings without deviation before the system reports a change of state or an alarm.

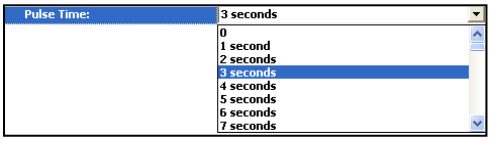


Relay Properties

All Relays (#1-12) have the following property:



- **Pulse Time:** The amount of time the relay stays active. Time ranges between 0-512 seconds.



- The cursor indicates that additional commands are available on a right mouse-click. Click on the Relay and right mouse-click. The following commands appear:

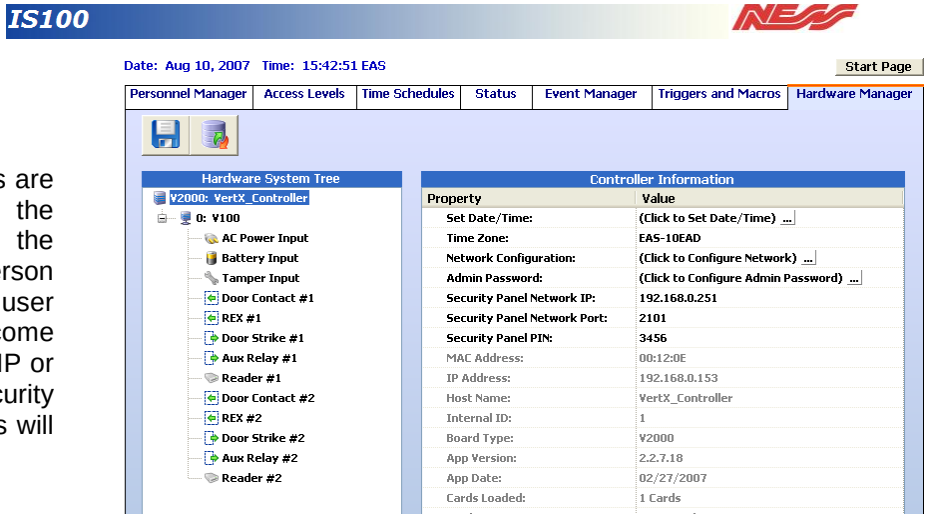
  - **Activate Relay**
  - **Deactivate Relay**
  - **Pulse Relay**

  Click on a command to perform the function.

Interface to Ness M1 Security System

The V1000 and V2000 controllers can communicate to the Ness M1 Security control panel via the TCP/IP connection. A good TCP Ethernet connection must remain in place for this to occur.

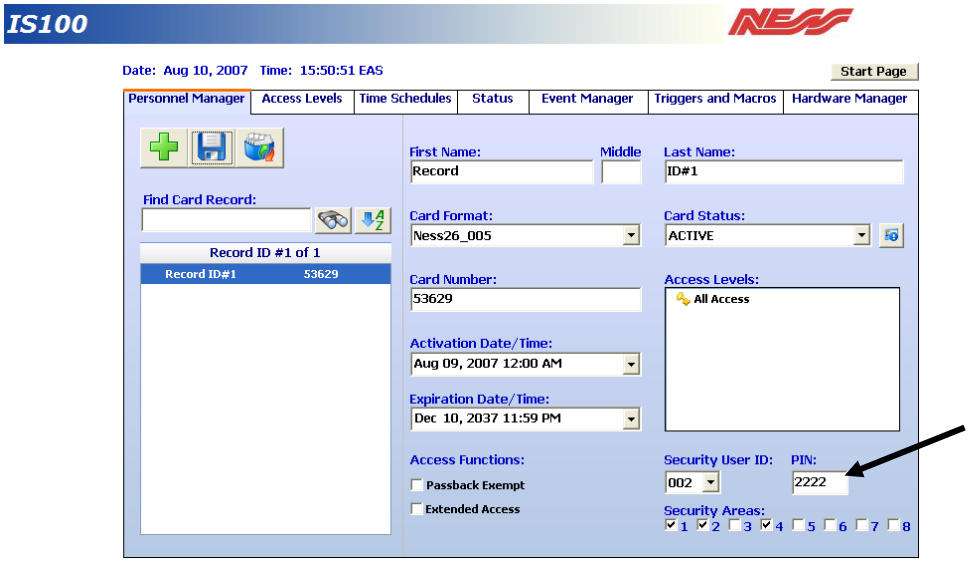
If Security Panel settings are programmed in the Hardware Manager for the controller, then when Person Manager is option M1 user code options will become available. If there is not IP or other setting for the Security Panel then these options will not appear.



Security Panel Network IP is the IP address of the M1 Ethernet module. The M1 must have an Ethernet module present on the same network for interfacing to be available.

Security Panel Network Port – This is the port programmed into the M1 Ethernet module. This port must be made active in the M1 Ethernet for communications to be established. (Please refer M1 Ethernet manual)

Security Panel PIN. – This is the Master Code as programmed in code 1 in the M1. If this code is changed in the M1 then it must also be changed her or communications will be lost.



If the security panel communications is set within the Hardware Manager as per above, then Security User ID can be programmed in the Personnel Manager.

Security User ID – Although the IS100 system supports up to 5,000 users, the M1 supports 198 user codes (2-199) for Arming and Disarming the Security System. The Security User ID allocates which of the 198 user codes is to be used by this user.

PIN – This is the 4 (or 6) digit PIN code the user will use to Arm or Disarm the m1 with.
To delete a user this code needs to be set back to 0000.

Security Areas – These are the Areas of the M1 Security panel the user will have access to in Arming and Disarming.

Deleting a user from the M1 Security Panel the PIN Code should be set back to 0000 and then saved. Once saved if you wish to free up the Security User ID so another user can use it then set it back to User 000. If you wish to reserve this User in the M1 for this user for future use then leave it set at a User ID No.
Note: If left to anything except 000 when the code is deleted then no other user will be able to use that code space and depending on how many users are programmed into the M1 then you may run out of M1 Security Systems users, so it is good practice to set this back to 000 after the code is deleted and account is saved.

Time Schedule Table 1

TIME SCHEDULE 1													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 2													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 3													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 4													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 5													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													

Time Schedule Table 2

TIME SCHEDULE 6													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 7													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 8													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 9													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 10													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													

Time Schedule Table 3

TIME SCHEDULE 11													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													
TIME SCHEDULE 12													
INTERVAL	BEGIN	END	MON	TUES	WED	THURS	FRI	SAT	SUN	H1	H2	H3	H4
1													
2													
3													
4													
5													
6													

Holiday Table

GROUP	DESCRIPTION	DATE	REPEATING

Reader Group Table 1

READER GROUP	DESCRIPTION
READER GROUP 1	
READER GROUP 2	
READER GROUP 3	
READER GROUP 4	
READER GROUP 5	
READER GROUP 6	
READER GROUP 7	
READER GROUP 8	
READER GROUP 9	
READER GROUP 10	

Access Level Table 1

ACCESS LEVEL 1	
READER GROUPS	TIME SCHEDULE
ACCESS LEVEL 2	
READER GROUPS	TIME SCHEDULE

Access Level Table 2

ACCESS LEVEL 3	
READER GROUPS	TIME SCHEDULE
ACCESS LEVEL 4	
READER GROUPS	TIME SCHEDULE
ACCESS LEVEL 5	
READER GROUPS	TIME SCHEDULE

Access Level Table 3

ACCESS LEVEL 6	
READER GROUPS	TIME SCHEDULE
ACCESS LEVEL 7	
READER GROUPS	TIME SCHEDULE
ACCESS LEVEL 8	
READER GROUPS	TIME SCHEDULE

Access Level Table 4

ACCESS LEVEL 9	
READER GROUPS	TIME SCHEDULE
ACCESS LEVEL 10	
READER GROUPS	TIME SCHEDULE

NOTES

IS100 User Manual
Rev 1.1 May 2012

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For the products:
101-049 V1000 IP ACCESS CONTROLLER
101-053 V2000 IP ACCESS CONTROLLER

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